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Search 1: FT=(plumbing* and flow* and pressure* and kitchen* and shower*) (Results 689)
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1) Family number: 47677859 (US2010293991A)

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Title: AIR CONDITIONING WIRING SYSTEM

Abstract: A wiring system for use in an air conditioning system comprising a printed circuit board having a perimeter and wiring receptacles located proximate the perimeter and wiring connectors. In one aspect, at least some of the wiring receptacles comprise two or more wiring sub-receptacles, and each of the wiring sub-receptacles includes a slotted sub-receptacle connection pattern. Furthermore, the slotted sub-receptacle connection pattern of each of the wiring sub-receptacles is different from every other sub-receptacle connection pattern. Each of the wiring connectors includes a ridged connection pattern that is different from every other ridged connection pattern of the wiring connectors, such that a given wiring connector is receivable within only one of the wiring sub-receptacles. An air conditioning system and a method of manufacturing is also provided.

Classifications:

International (IPC 8-9): B21D53/02 B23P15/26 B23P17/04
B23P21/00 F01C1/02 F24F1/00 F24F1/06 F24F11/00 F24F11/02
F24F11/04 F24F11/06 F24F11/30 F24F11/38 F24F11/47 F24F11/50
F24F11/62 F24F11/65 F24F11/70 F24F11/86 F24F11/88 F24F13/00
F24F3/153 F24F7/00 F25B1/00 F25B1/10 F25B39/04 F25B49/02
F25D17/06 F25F39/04 F28F11/00 F28F11/06 F28F13/00 F28F27/00
G01D4/00 G01M1/38 G01P3/489 G01R21/00 G01R21/127
G01R21/133 G05B G05B11/01 G05B13/00 G05B13/02 G05B15/00
G05B15/02 G05B19/00 G05B19/042 G05B21/00 G05B23/02 G05D
G05D23/00 G05D23/13 G05D7/00 G06F11/00 G06F11/07 G06F12/00
G06F12/02 G06F12/14 G06F17/40 G06F19/00 G06F9/24 G06F9/44
G06Q50/06 G08B5/22 H01H47/00 H01R H01R11/20 H01R12/00
H01R12/50 H01R12/71 H01R12/72 H01R13/00 H01R13/115
H01R13/422 H01R13/46 H01R13/50 H01R13/514 H01R13/62
H01R13/64 H01R13/645 H01R13/648 H01R24/00 H01R43/00
H01R9/00 H01R9/24 H02G15/117 H02H7/09 H02J13/00 H02J3/02
H02J3/14 H02K7/14 H02P1/00 H02P25/04 H04L12/24 H04L9/14
H04M1/00 H05K3/00 H05K7/02 (Advanced/Invention);
G05D23/19 H01R4/36 H02J3/14 (Advanced/Non-invention)

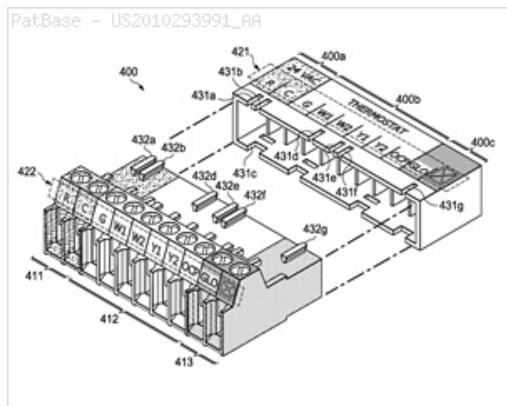
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H01R12/00

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29/592 29/592S 29/825 29/825S 29/842 29/842S 29/890.03 29/890.030S 29/890.035 29/890.035S 307/3 307/83 318/490
318/490P 340/8.1 340/8.100S 340/825.49 340/825.52 340/9.1 340/9.100P 361/152 379/377 379/391 418/55.1 418/55.100S
439/55 439/55P 439/55S 439/680 439/718 439/718S 439/79 62/228.1 62/228.100S 62/426 62/426S 62/498 62/498P
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711/E12.008 711/E12.008S 713/193 713/193S 713/2 713/2S 714/23 714/39 714/39P 714/55 714/E11.025 714/E11.025S
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Family:

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Priority:

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Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

2) Family number: 57599680 (US2014306799A)

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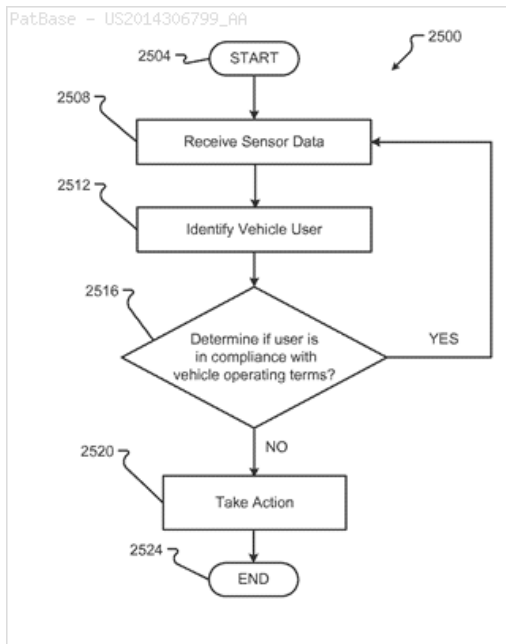
Title: VEHICLE INTRUDER ALERT DETECTION AND INDICATION

Abstract: Methods and systems for a detecting an intruder near or within a vehicle are disclosed. Specifically, a method to detect and identify a person near or within a vehicle as an authorized or an unauthorized user is provided. In the event an unauthorized user is detected within a vehicle, the system may take a number of actions. In one embodiment, the actions comprise providing notice to one or more authorized users of the vehicle, disabling the vehicle, notifying emergency personnel or police, and emitting a visual or audio alarm.

Classifications:

International (IPC 8-9): B60C1/00 B60K28/00 B60K35/00 B60N2/02 B60Q1/00 B60Q7/00 B60Q9/00 B60R16/037 B60R22/00 B60R25/00 B60R25/01 B60R25/10 B60R25/25 B60W10/00 B60W40/08 B60W40/09 B60W50/08 B60W50/10 B60W50/14 G01C21/00 G01C21/20 G01C21/26 G01C21/34 G01C21/36 G01C23/00 G01L13/00 G05B15/02 G05D1/00 G05D1/02 G05D23/19 G05D3/00 G06F13/36 G06F15/177 G06F17/00 G06F17/28 G06F17/30 G06F21/00 G06F21/31 G06F21/32 G06F3/01 G06F3/0481 G06F3/0482 G06F3/0484 G06F7/00 G06F9/445 G06K9/00 G06K9/62 G06Q10/00 G06Q10/02 G06Q10/10 G06Q20/14 G06Q30/00 G06Q30/02 G06Q30/06 G06Q50/30 G07C5/00 G07C5/02 G07C5/08 G07C9/00 G08B13/196 G08B21/02 G08B23/00 G08B25/01 G08B29/18 G08G1/00 G08G1/01 G08G1/0965 G08G1/0968 G08G1/16 G10L13/00 H04L29/06 H04L29/08 H04N21/214 H04N21/218 H04N21/2225 H04N21/226 H04N21/239 H04N21/258 H04N21/414 H04N21/436 H04N21/4363 H04N21/454 H04N21/475 H04N21/6408 H04N21/643 H04N7/16 H04N7/18 H04W36/00 H04W36/32 H04W36/34 H04W4/00 H04W4/04 H04W4/12 H04W4/20 H04W4/22 H04W48/02 H04W48/04 H04W68/12 H04W76/02 H04W8/08 H04W84/00 H04W84/18 (Advanced/Invention); B60Q1/52 B60W40/08 B60W50/00 G01C21/26 G01C22/00 G06F19/00 G06F3/01 G06F3/0488 G06G7/70 G08B1/08 G08B21/06 G08B25/01 G08B29/18 G08G1/00 G08G1/09 G08G1/0967 H04N7/18 H04W12/06 H04W12/08 H04W4/20 H04W84/00 (Advanced/Non-invention)

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: AUTOCONNECT HOLDINGS LLC

Assignee(s): (std): AUTOCONNECT HOLDINGS LLC ; FLEXTRONICS AP LLC ; RICCI CHRISTOPHER P

Inventor(s): (std): RICCI CHRISTOPHER P ; LINDON BRENT R ; WILSON TADD F ; LENNOX GENTLE THAINE ; FONG GARY ; YUSUPOV ALISHER ; YUSUPOV ALISHER I ; CHINCISAN OCTAVIAN

Agent(s): RUPPRECHT KAY; SHERIDAN ROSS PC; MARSH FISCHMANN AND BREYFOGLE LLP; ROBERT G; LENNOX GENTLE THAINE; BUCKLEY RAQUEL F; REINHARDT DEAN N; VICK JASON H; ZELENKA RICHARD E; BUCKLEY TIMOTHY E; WILSON TADD F; SWARTZ DOUGLAS W

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 52545536 (US2012313272A)

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Title: COMPONENT PROTECTIVE OVERMOLDING

Abstract: Techniques for component protective overmolding include selectively applying a protective material substantially over one or more elements coupled to a framework, forming an inner molding substantially over the framework, the one or more electrical elements coupled to the framework, and the protective material. In some examples, the inner molding is formed after the protective material has been selectively applied, forming an outer molding substantially over the inner molding and the outer molding is configured to protect the framework and to provide a surface configured to receive a pattern. Further, the outer molding may be configured to be removable if a defect is found during an inspection performed after the outer molding is formed.

Classifications:

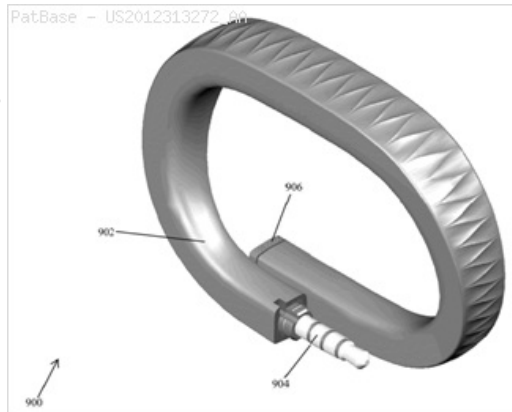
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European: H04W52/02T4G

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Family:

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 64533021 (US2017105057A)

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Title: SYSTEM, METHOD AND APPARATUS FOR SYSTEM STATUS IDENTIFICATION IN A **WIRELESS SENSOR** NETWORK

Abstract: A configured mode of operation of a **wireless sensor** network can be established through a dynamic remote configuration process. The plug-and-play universal **sensor** interface enables the monitoring capabilities of the **wireless sensor** network to scale seamlessly with the dynamic nature of changing **sensor** application objectives. A system status module enables a user to view the **sensor** service to confirm the current configuration of the **wireless sensor** network.

Classifications:

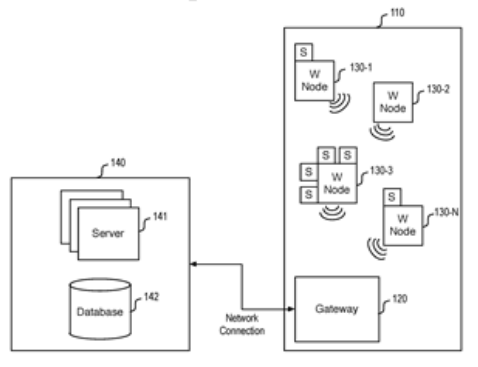
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SENSEWARE INC

Assignee(s): (std): SENSEWARE INC

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Inventor(s): (std): AL MOMEN SERENE ; STAMATAKIS JULIEN G ; SACKS NATHAN A ; HOFFMANN THOMAS

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Probable Assignee: SIPCO LLC

Assignee(s): (std): HUNT TECHNOLOGIES LLC ; HUNT TECHNOLOGIES INC ; BAKER HUGHES INC ; PETITE THOMAS D ; STAT SIGNAL SYSTEMS INC ; WESTERNGECO LLC ; STAT SIGNAL IPC LLC ; SIPCO LLC ; PETITE THOMAS DAVID

Assignee(s): SILICON VALLEY BANK ; SITTON GARY ARTHUR ; ALARMCOM INC ; ALDORETTA DAVID PHILIP ; PETITE ZACHARY THOMAS ; WESTERNGECO SEISMIC HOLDINGS LTD ; PETITE DAVID ; STARSIGNAL IPC LLC ; STAT SIGNAL IPC LLC ; WESTERNGECO L L C ; DAVIS JAMES ; ENERGYHUB INC ; HUFF RICHARD M ; LLOYDS TSB BANK PLC ; LEE OLIVER ; PETITE CANDIDA ; LANDIS AND GYR TECHNOLOGIES LLC ; LLOYDS TSB BANK PLC UNITED KINGDOM PUBLIC CO ; LLOYDS TSB BANK PLC UNITED KINGDOM PUBLIC CO LTD ; LLOYDS TSB BANK PLC (UNITED KINGDOM PUBLIC COMPANY) LTD ; LLOYDS TSB BANK PLC UNITED KINGDOM PUBLIC COMPANY LTD

Inventor(s): (std): ALDORETTA DAVID PHILIP ; DAVIS JAMES ; PETITE ZACHARY THOMAS ; SITTON GARY ARTHUR ; HUFF RICHARD M ; PETITE THOMAS D ; PETITE THOMAS DAVID ; HUFF RICHARD ; PETITE THOMAS ; GARY ARTHUR SITTON ; HUFF M ; PETITE D ; SITTON GARY A

Inventor(s): GARY A SITTON ; THOMAS D PETITE ; RICHARD M HUFF ; JAMES DAVIS ; DAVID PHILIP ALDORETTA

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; SANTARELLI; THOMAS KAYDEN HORSTEMEYER AND RISLEY LLP; TROUTMAN SANDERS LLP; TROUTMAN SANDERS LLP, BANK OF AMERICA PLAZA; TROUTMAN SANDERS LLP BANK OF AMERICA PLAZA; TROUTMAN SANDERS LLP, 5200 BANK OF AMERICA PLAZA; SCHNEIDER RYAN A; YANCEY JR JAMES HUNT; RYAN A; JAMES HUNT; SCHUTZ JAMES E; JAMES E; THOMAS KAYDEN HORSTEMEYER AND RISLEY; JAMES H; KOWALEWSKI FILIP A; FILIP A; KILPATRICK TOWNSEND AND STOCKTON LLP; TROUTMAN SANDERS LLC; TRENTON A; DUSTIN B

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

6) Family number: 30222191 (US2004059212A)

PatBase

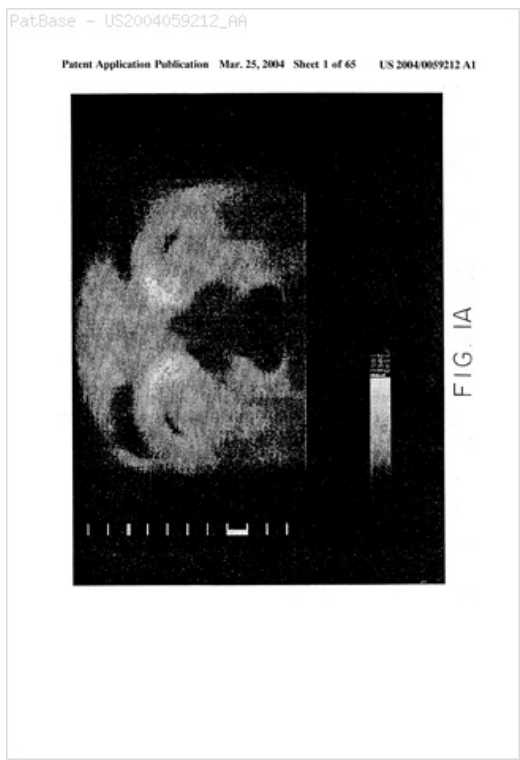
Title: APPARATUS AND METHOD FOR MEASURING BIOLOGIC PARAMETERS

Abstract: Support structures for positioning **sensors** on a physiologic tunnel for measuring physical, chemical and biological parameters of the body and to produce an action according to the measured value of the parameters. The support structure includes a **sensor** fitted on the support structures using a special geometry for acquiring continuous and undisturbed data on the physiology of the body. Signals are transmitted to a remote station by **wireless** transmission such as by electromagnetic waves, radio waves, infrared, sound and the like or by being reported locally by audio or visual transmission. The physical and chemical parameters include brain function, metabolic function, hydrodynamic function, hydration status, levels of chemical compounds in the blood, and the like. The support structure includes patches, clips, eyeglasses, head mounted gear and the like, containing passive or active **sensors** positioned at the end of the tunnel with sensing systems positioned on and accessing a physiologic tunnel.

Classifications:

International (IPC 8-9): A41D20/00 A42B3/04 A42C5/02 A61B A61B10/00 A61B5/00 A61B5/01 A61B5/02 A61B5/0205 A61B5/021 A61B5/024 A61B5/04 A61B5/0476 A61B5/05 A61B5/053 A61B5/103 A61B5/11 A61B5/117 A61B5/1171 A61B5/145 A61B5/1455 A61B5/1486 A61B6/00 A61B8/08 A61F7/00 A61F7/12 A61K31/01 A61K31/785 A61K33/44 A61L27/54 A61L29/10 A61L31/08 A61L33/02 A61M21/02 A61P7/02 A61P9/04 B60H1/00 B60K28/06 B60T7/14 B60W10/00 B60W40/08 B60W50/00 B62D6/00 F24F11/02 G01B11/24 G01J1/02 G01J5/00 G01J5/10 G01K G01K1/00 G01K1/02 G01K1/16 G01K13/00 G01K13/02 G01K7/00 G01N21/35 G02B27/00 G02C11/00 G08B5/36 H04N5/225 H04N5/33 H04N7/18 (Advanced/Invention); A61B5/00 A61B5/01 A61B5/02 A61B5/0205 A61B5/04 A61B5/145 A61B5/1455 A61B5/1491 A61B8/08 A61F7/12 B60W40/08 G01J5/00 G01K7/22 (Advanced/Non-invention); A61B10/00 A61B5/00 A61B5/01 A61K31/01 A61K31/74 A61K33/44 A61L27/00 A61L29/00 A61L31/08 A61L33/00 A61P7/00 A61P9/00 F24F11/02 (Core/Invention); A61B G01K G01N (Subclass/Invention) **International (IPC 1-7):** A61B5/00 A61B5/04 G01B11/24 G01K1/02 G01N0/00 G02B27/00 G02C11/00 **CPC:** A61B5/0059 G02C11/10 A61F7/00 A61B5/746 A61B5/0002 A61B5/6833 A61B5/6887 A61B2560/0418 A61B5/021 A61B5/02416 A61B5/7405 A61B5/0075 G01J5/10 A61B5/0046 A61B5/6891 A61B5/6898 A61B5/0079 A61B5/1176 A61B5/7246 A61B5/7282 G01J2005/0077 A61B5/0017 A61B5/0026 A61B5/72 B60H1/00735 H04N7/18 A61B5/14553 A61B5/742 A61B5/0476 A61B5/0537 G08B5/36 G01K13/002 A61B5/14532 A61B5/14546 A61B5/14551

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Family:

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US20180039761	20180719				

Probable Assignee: GEELUX HOLDINGS LTD

Assignee(s): (std): AB MARCIO MARC AURELIO MARTINS ; ABREU MARCIO ; ABREU MARCIO M ; ABREU MARCIO MARC ; ABREU MARCIO MARC AURELIO MART ; ABREU MARCIO MARC AURELIO MARTINS ; MARCIO MARC AURIELO MARTINS AB ; MARCIO MARC AURELIO MARTINS AB ; MARCIO MARC AURELIO MARTINS ABREU ; MARCIO ABREU ; ABREU MARCIO MARC AURELIO MARTINUS ; MARCIO MARC ABREU ; GEELUX HOLDINGS LTD ; GEELUX HOLDING LTD ; MARCIO ABREAU

Assignee(s): ABREU MARCIO MARC AURELIO MARTINS ; MARCIO MARC AURIELO MARTINS ABREU ; BRAIN TUNNELGENIX ; ABRUE MARCIO MARC AURELIO MARTINS ; ABREU MARCIO MARC AURELIO MARTINS MR ; ABREU MARCIO MARC AURELIO MARTINS NORTH HAVEN

Inventor(s): (std): ABREU MARCIO MARC ; ABREU MARCIO MARC AURELIO MART ; MARCIO MARC AURELIO MARTINS ABREU ; MARCIO MARC ABREU ; MARC ABREU MARCIO ; ABREU MARCIO MARC AURELIO MARTINUS ; ABREU MARCIO MARC AURELIO MART ; ABREU MARCIO M ; AB MARCIO MARC AURELIO MARTINS ; MARCIO ABREAU ; MARCIO MARC AURELIO MARTINS AB ; MARCIO MARC AURIELO MARTINS AB ; ABREU MARCIO MARC AURELIO MARTINS

Inventor(s): MARCIO MARC AURIELO MARTINS ABREU ; ABREU MARCIO MARC AURELIO MARTINS NORTH HAVEN ; ABREU MARCIO MARC AURELIO ; ABREU MARCIO ; ABREU MARCIO MARC AURELIO MARTINS ; ABRUE MARCIO ; MARC AURELIO MARTINS

Agent(s): FB RICE PTY LTD; FB RICE; MOFFAT AND CO; PFENNING MEINIG AND PARTNER MBB PATENTANWALTE; WILLIAMS MICHAEL DAVID; PFENNING MEINIG AND PARTNER GBR; PFENNING MEINIG AND PARTNER MBB; TRIGO JOSE RAMON; NTD PATENT AND TRADE MARK AGENCY LTD; WOLFF BREGMAN AND GOLLER; NISHIJIMA TAKAKI; OHTSUKA FUMIAKI; SUDA HIROYUKI; KONDO NAOKI; UESUGI HIROSHI; DESHIMARU TAKESHI; ATMD BIRD AND BIRD LLP; JACOBSON HOLMAN PLLC; STUDEBAKER AND BRACKETT PC; SCHERER JONATHAN L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

7) Family number: 62922902 (US2017086281A)

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Title: METHOD AND APPARATUS FOR POWER EXTRACTION IN A PRE-EXISTING AC WIRING INFRASTRUCTURE

Abstract: A method and apparatus for extracting power in a switch location, and in a load location for use in a pre-existing infrastructure of switching AC power to a lamp (or other load) via a two terminal switch device. The switch is replaced with a module including a first controlled switch (such as a triac or relay) and a first impedance (such as a capacitor) connected in parallel, and another module including a second controlled switch (such as a triac or relay) and a second impedance (such as a capacitor) connected in parallel, is installed at the load location. In an 'off' state where the two controlled switches are in 'open' state, current is flowing via the impedances, but not through the load, so that power extractor circuits in the modules, connected in series to the impedances, extract low power for DC powering logic and other loads in the modules.

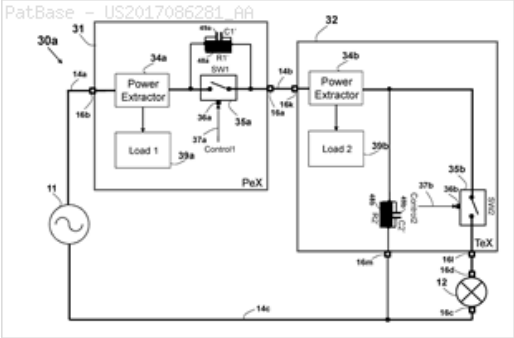
Classifications:

International (IPC 8-9): A01G31/02 A01G7/04 B01D61/14 C02F1/42 G08C17/02 G08C19/12 H02J3/14 H02J3/28 H05B37/02 H05B39/08 (Advanced/Invention);

A01G25/16 A01G27/00 A01G31/00 A01G9/02 F21V23/04 G05B15/02 H02M1/00 H04W84/12 (Advanced/Non-invention)

CPC: H05B37/0227 H02J3/14 F21V23/04 H04W84/12 H02M2001/0006 H05B39/086 H05B39/088 A01G31/02 A01G2031/006 H05B37/0272 A01G7/045 A01G9/18 A01G9/246 A01G2009/248 C02F1/283 C02F1/42 C02F1/44 C02F1/4672 C02F1/78 C02F9/00 C02F2209/005 C02F2209/05 C02F2209/06 C02F2305/06 A01G7/04 A01G9/02 A01G25/16 A01G27/005 A01G31/00 B01D61/147 G05B15/02 A01G31/06

US: 315/283



Family:

Publication number	Publication date	Application number	Application date
EP3243195 A2	20171115	EP20150876754	20151202
EP3243195 A4	20180822	EP20150876754	20151202
US2017086281 AA	20170323	US20160359797	20161123
US2017265287 AA	20170914	US20170600719	20170520
US2018092313 AA	20180405	US20170832789	20171206
US2018332787 AA	20181122	US20170600716	20170520
US9839103 BB	20171205	US20160359797	20161123
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Priority:

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US20170600719 20170520 US20170600716 20170520 US20170832789 20171206

Probable Assignee: CMOO SYSTEMS LTD

Assignee(s): (std): CMOO SYSTEMS LTD ; CMOO SYSTEMS LTD ; LEO DANIEL MICHAEL

Inventor(s): (std): AVRAHAM AVRAHAM ; LEO DANIEL MICHAEL

Agent(s): BECKER KURIG STRAUS; MAY PATENTS LTD; MAY PATENTS LTD C O DORIT SHEM TOV; BINDER SHEM TOV DORIT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 54513488 (US2013201316A)

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Title: SYSTEM AND METHOD FOR SERVER BASED CONTROL

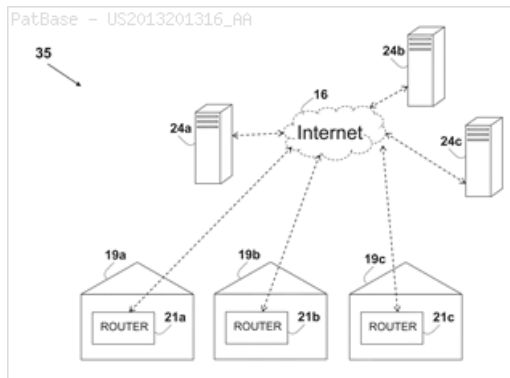
Abstract: A system and method in a building or vehicle for an actuator operation in response to a **sensor** according to a control logic, the system comprising a router or a gateway communicating with a device associated with the **sensor** and a device associated with the actuator over in-building or in-vehicle networks, and an external Internet-connected control server associated with the control logic implementing a PID closed linear control loop and communicating with the router over external network for controlling the in-building or in-vehicle phenomenon. The **sensor** may be a microphone or a camera, and the system may include voice or image processing as part of the control logic. A redundancy is used by using multiple **sensors** or actuators, or by using multiple data paths over the building or vehicle internal or external communication. The networks may be wired or **wireless**, and may be BAN, PAN, LAN, WAN, or home networks.

Classifications:

International (IPC 8-9): H04L29/08 (Advanced/Invention); B60K31/00 B60K31/18 G01C21/00 G07C5/00 G08G1/00 (Advanced/Non-invention)

CPC: H04L67/12 B60K31/00 B60K31/18 B60Y2200/11 B60Y2200/12 B60Y2200/126 B60Y2200/13 B60Y2200/30 B60Y2200/40 B60Y2200/50 B60Y2200/90 G01C21/00 G06Q2240/00 G07C5/008 G08G1/00 Y04S40/18

US: 348/143 348/77 370/276 700/22 700/28 701/2 701/31.4 701/48 709/218

**Family:**

Publication number	Publication date	Application number	Application date
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US2017331899 AA	20171116	US20170657163	20170723
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Priority:

US20120584500P	20120109	US20120620129P	20120404	US20120637030P	20120423
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Probable Assignee:

MAY PATENTS LTD

Assignee(s): (std):

MAY PATENTS LTD

Inventor(s): (std):

MAYTAL BENJAMIN ; BINDER YEHUDA

9) Family number: 44583583 (US2010070085A)

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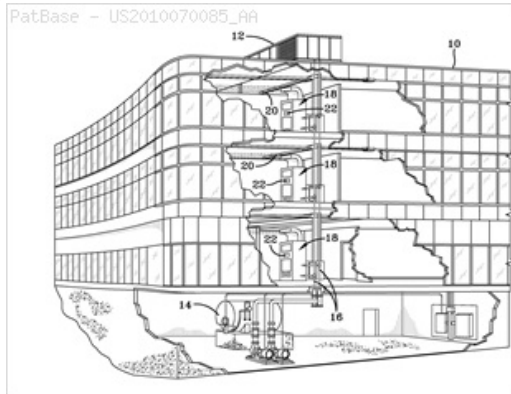
Title: AIRFLOW ADJUSTMENT USER INTERFACES

Abstract: **Controllers** for controlling heating, ventilating, air conditioning, and cooling (**HVAC**) systems are provided. The **controllers** include graphical user interfaces for user adjustment of system settings. The graphical user interfaces also may be designed to present information that facilitates user understanding of system operations. In certain embodiments, the **controllers** may allow users to adjust airflow values within a wide range of values. In these embodiments, the graphical user interfaces may include slide bars for adjusting the airflow values.

Classifications:

International (IPC 8-9): A61L2/28 A61L9/00 F24D15/04 F24D19/10 F24F11/00 F24F11/08 F24F11/30 F24F11/38 F24F11/46 F24F11/52 F24F11/58 F24F11/65 F24F11/70 F24F3/12 F25B29/00 F25D21/00 F25D21/06 F28F27/00 G01M1/28 G01M1/38 G05B11/01 G05B13/00 G05B13/02 G05B15/00 G05B19/042 G05B21/00 G05B23/00 G05D23/00 G05D23/185 G05D23/19 G05D7/00 G06F3/048 G06F3/0481 G06F9/44 G08C17/02 H04W4/00 (Advanced/Invention); F24F11/70 (Advanced/Non-invention); A61L2/26 A61L9/00 F24F11/08 G05B15/00 G05D23/00 G05D23/185 G05D23/19 G05D7/00 G06F3/048 (Core/Invention)
CPC: G06F8/34 G05B19/042 F24F11/30 F24F11/52
European: F24F11/00R9 R24F11/00R9E
US: 165/200 165/201 422/119 422/119S 422/123 422/123S 62/150 62/151 62/155 62/234 700/17 700/246 700/276 700/276P 700/277 700/277P 700/277S 700/278 700/278P 700/278S 700/282 700/282S 700/299 700/44 700/54 715/771 715/772 715/772P 715/833

PatBase - US2010070085_AA

**Family:**

Publication number	Publication date	Application number	Application date
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Probable Assignee: JOHNSON CONTROLS TECHNOLOGY CO

Assignee(s): (std): ABARAW MIMOUN ; BEERS BRADLEY A ; BENTZ JEDIDIAH O ; CARMICHAEL GRANT E ; HARROD GREGORY RALPH ; JOHNSON CONTROLS TECH CO ; OSTRYE NATHAN T ; SLAVENS AMANDA L ; HORN JEREMIAH M ; RIGG BRIAN D

Assignee(s): JOHNSON CONTROLS TECHNOLOGY CO ; JOHNSON CONTROLS TECHNOLOGY COMPANY

Inventor(s): (std): RIGG BRIAN D ; HARROD GREGORY RALPH ; CARMICHAEL GRANT E ; BEERS BRADLEY A ; OSTRYE NATHAN T ; SLAVENS AMANDA L ; BENTZ JEDIDIAH O ; CAMICHAEL GRANT E ; HORN JEREMIAH M ; ABARAW MIMOUN

Agent(s): KIRBY EADES GALE BAKER; JOHNSON CONTROLS INC C O FLETCHER YODER PC; FLETCHER YODER; FLETCHER YODER PC

10) Family number: 24080715 (US5699243A)

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Title: MOTION SENSING SYSTEM WITH ADAPTIVE TIMING FOR CONTROLLING LIGHTING FIXTURES

Abstract: A system for selectively providing power from a power source to a load to operate in an area for at least one occupant comprising a processing device for controlling the opening and closing of a relay connected between the load and the power source for energizing the load, and a **sensor** for detecting the presence of an occupant in the area. The processing device is programmable to close the relay in response to an output signal from the **sensor** for a period of time that can be of fixed duration, or a duration that is dynamically and automatically determined using **sensor** data relating to measured time between successive, detected occupant movements. In addition to a daylight inhibit function, the system is provided with color indicators and a tone generator to indicate various operating conditions and to guide a user entering selected system parameters, among other features.

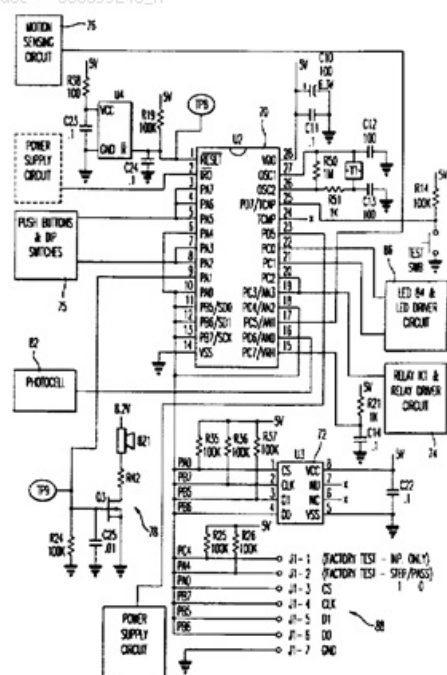
Classifications:

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International (IPC 1-7): G01D11/28 G01D15/14 G01D21/02 G01J1/00 G01J1/04 G01J5/02 G01K1/00 G01K1/08 G01K1/14 G01K1/16 G01K13/02 G01P13/00 G02B13/08 G02B13/18 G02B27/10 G02B3/08 G05B11/01 G05B13/02 G05D25/00 G05D27/02 G06F19/00 G08B11/01 G08B13/19 G08B13/191 G08B13/193 G08B29/00 G08C19/00 H01H47/00 H01H47/22 H02H01/00 H02H3/16 H05B37/02 **CPC:** Y10S236/19 Y10S250/01 G05D23/1902 Y02B20/445 Y02B20/44 H05B37/0209 H05B41/16 Y10T307/766 Y10T307/773 G01K1/16 G05B19/0425 G08B13/19 G08B13/193 H05B37/02 H05B37/0227 H05B37/0254 H05K1/0201 H05K1/18 Y10T307/826 H01H47/007

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Priority:

US19950382691 19950202	US19950412502 19950329	US19950501846 19950713
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Agent(s): FINLAYSON AND SINGLEHURST

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

11) Family number: 43868216 (US2009267540A)

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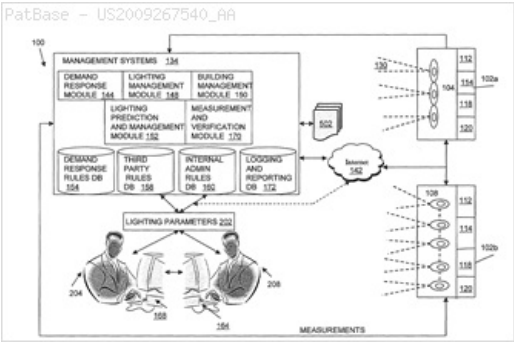
Title: MODULAR LIGHTING SYSTEMS

Abstract: In embodiments of the present invention, a method and system is provided for designing improved intelligent, LED-based lighting systems. The LED based lighting systems may include fixtures with one or more of rotatable LED light bars, integrated **sensors**, onboard intelligence to receive signals from the LED light bars and control the LED light bars, and a mesh network connectivity to other fixtures.

Classifications:

International (IPC 8-9): B60Q1/00 F21S2/00 F21S4/00 F21S4/28 F21S8/04 F21S8/08 F21S9/02 F21S9/04 F21V14/02 F21V15/00 F21V15/01 F21V19/00 F21V21/00 F21V21/15 F21V21/30 F21V23/04 F21V29/00 F21V29/56 F21V29/60 F21V29/74 F21V29/76 F21V33/00 G01R19/00 G01R21/14 G01R7/00 G05B11/01 G05D11/00 G05D3/12 G05F1/00 H01J23/16 H01R33/00 H05B33/08 H05B37/00 H05B37/02 H05B39/04 H05B41/36 (Advanced/Invention); F21K9/20 F21S9/04 F21V14/02 F21Y101/02 F21Y103/00 F21Y103/10 F21Y113/00 F21Y115/10 G02C11/02 (Advanced/Non-invention); F21V15/00 F21V21/14 F21V29/00 F21V33/00 H05B37/02 (Core/Invention)

CPC: H05B37/0272 H05B37/0245 F21V17/104 Y10S362/80 F21S9/024 F21S9/043 F21V23/0442 F21W2131/101 F21W2131/103 F21W2131/105 F21W2131/40 F21W2131/407 H05B37/0254 Y02B20/44 F21V19/0015 F21S8/08 F21S9/03 F21V17/02 F21W2131/10 F21S8/086 F21V19/0045 F21V23/0464 F21V23/0471 Y02B20/42 F21S8/04 H05B33/08 F21V29/763 F21V29/54 F21V29/713 F21V29/73 F21V29/85 H05B37/0236 H05B33/0872 F21V21/00 F21S9/04 F21V21/15 F21V21/30 F21S4/20 F21S4/28 F21V19/04 F21V29/51 F21K9/00 F21V29/67 H05B33/0854 Y02B20/46 F21V29/74 F21V29/60 F21V15/01 H05B37/0227 H05B37/0281 H05B37/0218 H05B37/02 F21S2/00 F21S2/005 F21S9/02 F21V29/56 Y02B20/72 F21V14/02 F21Y2103/10 F21Y2115/10 F21Y2113/00 F21K9/20 F21Y2115/15 F21S9/022 F21Y2105/10 F21V29/63 F21V29/70 H05B37/029 Y02B20/48 H05B33/0815 F21V23/003 **European:** F21S2/00A F21S48/32P F21S8/08 F21S9/02E4 F21S9/04F F21V17/02 F21V21/15 F21V21/30 F21V23/04S F21V29/00C10 F21V29/00C2 F21V29/22 F21V29/22B2F2 F21V29/24 F21V29/26B F21V29/40 H05B37/02B4 H05B37/02B6 H05B37/02B6D H05B37/02B6R H05B37/02B8 H05B37/02S R21S2/00A R21S4/00L R21S4/00L6 R21S9/03 R21S9/04 R21V14/02 R21V19/04 R21V21/15 R21V21/30 R21V29/26F R21V29/40F R21W131/10 R21W131/101 R21W131/103 R21W131/105 R21W131/40 R21W131/407 R21Y101/02 R21Y103/00D Y02B20/48 **US:** 1/1 315/130 315/130P 315/131 315/152 315/153 315/154 315/155 315/291 315/291P 315/294 315/294P 315/297 315/297P 315/307 315/308 315/309 315/312 315/312P 315/317 315/318 315/360 315/51 324/105 324/105P 324/142 324/76.11 340/309.16 340/517 340/565 351/51 362/235 362/235P 362/249.02 362/249.020P 362/249.06 362/249.07 362/249.08 362/249.1 362/249.100S 362/249.14 362/249.15 362/249.16 362/249.17 362/249.18 362/249.19 362/253 362/253S 362/35 362/35S 362/362 362/362S 362/373 362/373S 362/493 362/800 700/19 700/21 700/22 700/295 700/296 700/297



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 61657280 (US2016231817A)

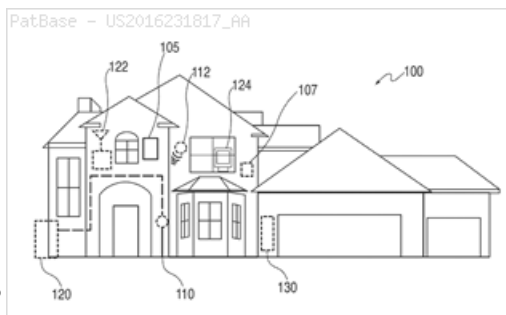
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Title: SYSTEMS AND METHODS FOR ALTERING A STATE OF A SYSTEM USING A REMOTE DEVICE THAT PROCESSES GESTURES

Abstract: Systems and methods systems and methods for altering a state of system using a remote device that processes gestures are described herein. The electronic device can communicate with the system in response to monitoring a user generated gesture or other interaction. For example, a user can wave the personal device or wave to the personal device, and in response thereto, the personal device can transmit an instruction to the system that causes it to change its operational state. Thus, embodiments discussed herein enable a user to perform remote gestures with a first device to affect the operation of a second device.

Classifications:

International (IPC 8-9): G01S19/01 G06F3/01 G06F3/0488
G06Q50/26 G08B1/08 G08B13/196 G08B17/10 G08B17/113
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G08B25/10 G08B25/14 G08B3/10 H01Q1/22 H01Q1/24 H01Q1/52
H01Q21/06 H01Q21/28 H01Q9/04 H04B1/10 H04B1/38 H04B1/3827
H04B1/403 H04B7/00 H04L12/28 H04L29/06 H04L29/08 H04N5/225
H04N5/232 H04N5/33 H04N7/18 H04W12/06 H04W12/08 H04W28/04
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H04W48/16 H04W52/02 H04W72/12 H04W74/00 H04W74/08
H04W84/12 H04W84/18 H04W88/06 (Advanced/Invention);
H04J1/16 H04L29/06 H04W84/12 H04W84/18
H04W88/06 (Advanced/Non-invention)
CPC: G06F3/017 G06F3/0488 H04N7/183 H04W48/16 H04W48/10
H04W52/0235 H04W88/06 H04N5/23206 H04W74/002 G08B13/19656
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US: 1/1 340/501 345/156 348/143 370/254 455/553.1 455/73



Family:

Publication number	Publication date	Application number	Application date
EP3054628 A1	20160810	EP20160154038	20160203
EP3308471 A1	20180418	EP20160742443	20160614
US2016231817 AA	20160811	US20150616186	20150206
US2016232778 AA	20160811	US20150616302	20150206
US2016234765 AA	20160811	US20160082473	20160328
US2016286169 AA	20160929	US20160085927	20160330
US2016286607 AA	20160929	US20150819376	20150805
US2016365885 AA	20161215	US20150819369	20150805
US2017207806 AA	20170720	US20170403067	20170110
US2018063485 AA	20180301	US20170691663	20170830
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US9794522 BB	20171017	US20160085927	20160330
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WO16126479 A2	20160811	WO2016US15061	20160127
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WO16205214 A1	20161222	WO2016US37401	20160614
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Priority:

US20150616186	20150206	US20150616302	20150206	US20150175388P	20150614
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Probable Assignee: GOOGLE INC

Assignee(s): (std): GOOGLE INC ; GOOGLE LLC

Inventor(s): (std): SANNALA MIKKO ; CALIDONNA WES ; SINGH NAVEEN ; HONJO HIROFUMI ; TANNENBAUM HARRY ; SIVASITHAMBARESAN ARJUNA ; HONG SCOTT ; RAMACHANDRAN PRASHANTH ; CALIDONNA WESLEY ; MISHRA SHRIDHAR MUBARAQ ; SANNALA MIKKO PEKKA ; CALIDONNA WESLEY MICHAEL

Agent(s): BOULT WADE TENNANT; VAN COURT AND ALDRIDGE LLP; MORGAN LEWIS AND BOCKIUS LLP; VAN COURT ANDREW ET AL; CRISMAN DOUGLAS J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 62960916 (US2016209058A)

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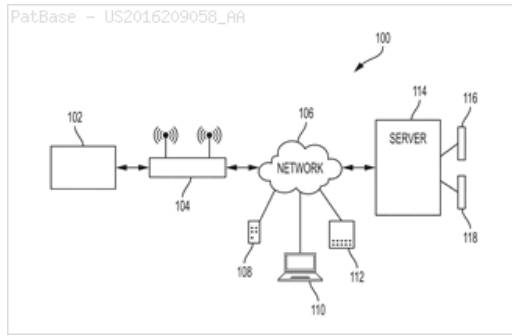
Title: PROGRAMMABLE SMART THERMOSTAT

Abstract: A home environment system includes a programmable thermostat and at least one server configured to communicate with the programmable thermostat via a **wireless** network. The at least one server is configured to receive information regarding work performed on at least one component of an **HVAC** system, generate a first report regarding the work performed, receive information regarding subsequent work performed on the at least one component of the **HVAC** system, generate a second report regarding the subsequent work performed, and perform a comparison between the first report and the second report. The at least one server is further configured to generate a comparison report that indicates differences between the first report and the second report and forward the generated comparison report to at least one of the programmable thermostat and at least one communication device.

Classifications:

International (IPC 8-9): F24F11/00 F24F11/02 F24F11/62 F25D17/00
G01M1/38 G05B15/00 G05B15/02 G05B19/042 G05B21/00
G05D23/00 G05D23/19 G05D9/00 G06F3/0484 G06F7/00 G06Q10/00
G08C17/00 H04L12/28 H04L29/08 H04W4/00 H04W4/70
H04W4/80 (Advanced/Invention);

F24F11/30 F24F11/52 F24F11/56 F24F11/58 F24F11/63 F24F11/64
F24F11/10 H04L1/00 H04W84/12 (Advanced/Non-invention)
CPC: H04L12/2809 G06Q10/20 G05B15/02 H04W84/12 H04L67/10
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G05B2219/21157 G05B2219/25168 H04L1/0004 H04L12/2823
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F24F11/64 F24F11/30 H04L12/2827 F24F2110/10 H04W4/70
F24F11/006 F24F11/62 H04W4/80
US: 236/1B 236/1C 340/539.27 700/276 700/278 D14/485 D14/485
Locarno class: 14/04 14/04



Family:

Publication number	Publication date	Application number	Application date
CA2912281 AA	20160719	CA20152912281	20151118
US2016209058 AA	20160721	US20150712030	20150514
US2016209059 AA	20160721	US20150712035	20150514
US2016209060 AA	20160721	US20150712066	20150514
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Priority:

US20150104900P 20150119	US20150104932P 20150119	US20150711981 20150514
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Probable Assignee: LENNOX IND INC

Assignee(s): (std): LENNOX IND INC

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Agent(s): MARKS AND CLERK; WINSTEAD PC; BAKER BOTTS LLP

14) Family number: 57611444 (US2014316584A)

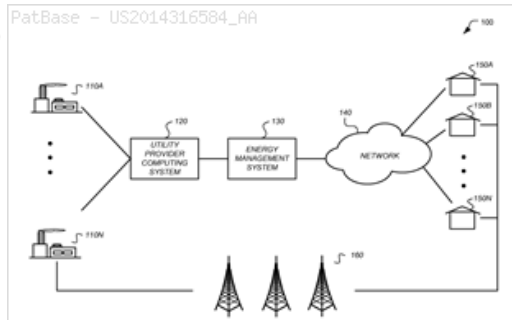
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Title: AUTOMATED ADJUSTMENT OF AN **HVAC** SCHEDULE FOR RESOURCE CONSERVATION

Abstract: Apparatus, systems, methods, and related computer program products for optimizing a schedule of setpoint **temperatures** used in the control of an **HVAC** system. The systems disclosed include an energy management system in operation with an intelligent, network-connected thermostat located at a structure. The thermostat includes a schedule of setpoint **temperatures** that is used to control an **HVAC** system associated with a structure in which the thermostat is located. The schedule of setpoint **temperatures** is continually adjusted by small, unnoticeable amounts so that the schedule migrates from the original schedule to an optimal schedule. The optimal schedule may be optimal in terms of energy consumption or some other terms.

Classifications:

International (IPC 8-9): F24F11/00 F24F11/02 F24F11/053 F24F11/30 F24F11/46 F24F11/50 F24F11/58 F24F11/62 F24F11/64 F24F11/76 G05B15/02 G05D23/19 H02J13/00 H02J3/00 H02J3/14 H02J3/38 H04Q9/00 (Advanced/Invention)
CPC: G05B15/02 G05D23/1917 F24F11/62 F24F11/30 F24F11/46 F24F11/52 F24F11/58 F24F11/61 F24F11/64 F24F11/65 F24F2110/00 F24F2110/10 F24F2120/20 F24F2140/60
US: 1/1 700/276 700/278



Family:

Publication number	Publication date	Application number	Application date
AU2014254308 AA	20151029	AU20140254308	20140408
AU2014254308 AA	20141023	AU20140254308	20140408
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AU2018202477 AA	20180426	AU20180202477	20180409
AU2018202477 BB	20190509	AU20180202477	20180409
CA2909590 AA	20151015	CA20142909590	20140408
CN105247290 A	20160113	CN201480029114	20140408
CN105247290 B	20180417	CN201480029114	20140408
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EP2986921 A1	20160224	EP20140785930	20140408
EP2986921 A4	20170222	EP20140785930	20140408
JP2016522663 T2	20160728	JP20160508964T	20140408
JP2019032157 A2	20190228	JP20180191835	20181010
JP6419782 B2	20181107	JP20160508964T	20140408
KR20150145259 A	20151229	KR20157033137	20140408
US2014316584 AA	20141023	US20130866578	20130419
US2016195289 AA	20160707	US20160049899	20160222
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WO14172149 A1	20141023	WO2014US33394	20140408

Priority:

US20130866578 20130419 AU20140254308 20140408 CN201480029114 20140408
JP20160508964T 20140408 WO2014US33394 20140408 US20160049899 20160222
AU20180202477 20180409

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Assignee(s): (std): GOOGLE INC ; GOOGLE LLC ; NEST LABS INC

Assignee(s): MATSUOKA YOKY ; MALHOTRA MARK ; FISHER EVAN J

Inventor(s): (std): MALHOTRA MARK ; MATSUOKA YOKY ; FISHER EVAN J ; FISHER EVAN

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; BOULT WADE TENNANT; FUKAMI PATENT OFFICE PC; KILPATRICK TOWNSEND AND STOCKTON LLP; SARLES MATTHEW T ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NP OA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

15) Family number: 29478712 (US2007191070A)

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Title: RECONFIGURABLE MOBILE DEVICE INTERFACES SUPPORTING AUTHENTICATED HIGH-QUALITY VIDEO, AUDIO, TV AND MULTIMEDIA SERVICES

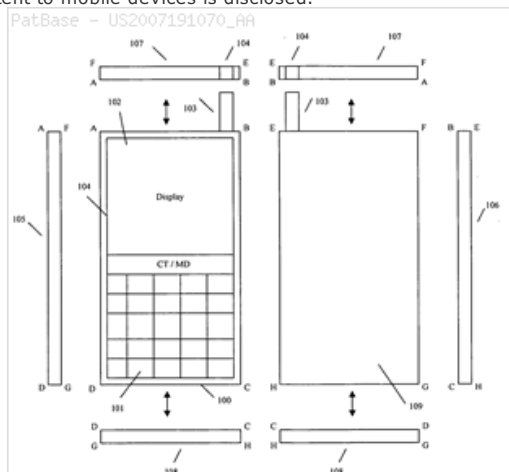
Abstract: A method and apparatus for reconfiguring the audio and video interfaces of mobile devices is described. A system for configuring various surfaces of a mobile device for performing additional functions such utilizing the front and reverse side of a mobile device with reconfigurable larger displays for enhancing the visual experience for various applications such as in video, TV and medical imaging is described. A system for command and control of a media center with a mobile device is disclosed. A method for multi-channel processing of audio and video information over mobile devices is described. A method for biometrically authorizing and delivering of copy right content to mobile devices is disclosed.

Classifications:

International (ipc 8-9): A61B5/00 A61B5/0205 A61B5/024 A61B5/026 A61B5/04 A61B5/0408 A61B5/117 A61B5/1455 A61K9/00 A61M31/00 A61M35/00 A61M37/00 A61M5/172 A61N1/36 A61N1/362 A61N1/365 A61N1/37 A61N1/372 A61N1/39 G02B27/01 G06F15/16 G06F15/177 G06F17/28 G06F17/30 G06F17/60 G06F19/00 G06F3/00 G06F3/023 G06F3/048 G06K9/00 G06K9/62 G06N5/02 G06Q17/30 G06Q30/02 G06Q30/06 G06Q30/08 G06T19/00 G06T3/40 G08B1/08 G08B9/00 G08C17/02 G09B19/00 G09B5/06 G09G5/14 H04B1/00 H04B1/02 H04B1/38 H04B10/00 H04B10/11 H04B13/00 H04B7/00 H04B7/005 H04B7/04 H04B7/15 H04B7/26 H04L12/24 H04L12/28 H04L12/725 H04L29/08 H04L5/08 H04M1/00 H04M1/02 H04M1/247 H04M1/725 H04M11/00 H04M3/00 H04M3/42 H04N1/00 H04N21/235 H04N21/414 H04N7/14 H04Q11/00 H04Q7/00 H04W12/06 H04W16/26 H04W36/00 H04W36/22 H04W4/00 H04W4/16 H04W4/20 H04W40/02 H04W48/18 H04W80/04 H04W84/04 H04W88/02 H04W88/06 H04W88/10 H04W92/02 (Advanced/Invention); G02B27/01 G06Q50/00 H04B1/38 H04B7/0404 H04L29/08 H04M1/725 H04M11/04 H04N13/04 H04N5/222 H04N7/14 H04N7/18 H04W8/18 H04W80/04 H04W84/12 H04W88/06 H04W88/10 (Advanced/Non-invention); A61B5/00 A61K9/00 G06F15/16 G08B1/00 G08B9/00 H04B1/02 H04B1/38 H04M1/00 (Core/Invention)

International (ipc 1-7): H04B1/38 H04M11/00

IPC: G06Q30/0641 H04M1/66 H04M1/7258 H04M2250/22 A61M2005/14208 A61M2005/14296 A61B5/0022 A61B5/026 A61B5/14551 A61N1/362 A61N1/365 A61N1/37211 G06Q50/12 H04W4/16 A61B5/002 A61B5/0402 A61B5/747 A61B2505/01 G06Q50/22 G08C17/02 A61B5/02438 A61B5/0205 A61B5/4836 A61B5/6801 Y10S128/92 H04M1/247 G06F17/28 H04L67/06 G06F19/3468 A61B5/1112 A61B5/14532 A61B5/4824 A61M5/172 A61N1/36021 H04L67/1097 H04M2250/58 H04M2250/74 G06F19/3418 A61B5/04087 A61B5/04012 A61B5/0006 A61N1/3956 A61N1/36007 H04B13/005 H04W4/20 A61N1/39 A61M5/1723 A61M5/142 H04W48/18 A61N1/37 A61B5/0015 H04L63/083 A61N1/3987 A61N1/3925 A61B5/00 A61B5/4872 G06Q50/24 G06Q2250/30 H04B1/3888 G06Q30/0269 G06Q50/01 H04L67/125 G06K9/00671 H04L69/16 H04L12/6418 H04W16/26 A61B8/565 A61B5/0002 A46B7/04 A46B15/0002 A46B15/0006 A46B15/0016 A46B15/0055 A46B2200/1066 A61B5/0079 A61B5/411 A61B5/4547 A61B8/00 A61B8/56 H04B7/15 H04L41/0816 H04M1/72519 H04M1/72525 H04W84/12 G06Q30/08 H04W8/18 H04L41/0813 H04W88/06 H04W80/04 H04W88/10 H04W84/04 H04L12/588 H04L41/147 H04L63/104 H04L67/306 H04M1/0268 H04L67/02 H04L67/16 H04L65/403 H04L63/08 H04L67/10 H04W92/02 H04M1/72577 G06K9/00154 H04L51/32 H04W4/08 H04B7/0413 H04L5/08 H04W12/06 H04L51/38 H04B7/04 A61B90/90 H04W36/22 H04N21/6131 H04N21/43637 H04B1/0057 A61N1/372 G06F19/34 A61B5/0031 A61N1/37288 H04L63/0861 H04M11/04 H04N1/00244 G06K9/6202 G06T19/006 H04N1/00095 H04N1/00214 H04N1/00307 G06F1/1643 G06F3/04817 G06F3/04886 H04M1/72575



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Family:

Publication number	Publication date	Application number	Application date
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US2008133716 AA	20080605	US20030644276	20030820
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Assignee(s): AIRSPACE REALITY ; RAO RAJNI ; SMART MOBILE INC

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

16) Family number: 49243972 (US2011170534A)

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Title: METHOD AND APPARATUS FOR SYNCHRONIZING MEASUREMENTS TAKEN BY MULTIPLE METROLOGY DEVICES

Abstract: Apparatus includes at least two devices that communicate with each other, wherein a first one of the at least two devices having an IEEE 1588 precision time protocol interface, the interface including one or more components configured for communications in both a wired manner and a **wireless** manner with a second one of the at least two devices. The second one of the at least two devices having an IEEE 1588 precision time protocol interface, the interface including one or more components configured for communications in both a wired manner and a **wireless** manner with the first one of the at least two devices. Wherein one of the at least two devices includes a master clock and the other one of the at least two devices includes a slave clock, wherein the master clock communicates a time to the slave clock and the slave clock is responsive to the communicated time from the master clock to adjust a time of the slave clock if necessary to substantially correspond to the time of the master clock, thereby time synchronizing the at least two devices together.

Classifications:

International (IPC 8-9): B25J9/16 G01B11/00 G01B11/02 G01B11/03 G01B11/14 G01B11/24 G01B11/245 G01B11/25 G01B15/08 G01B21/00 G01B21/04 G01B21/20 G01B3/00 G01B5/00 G01B5/004 G01B5/008 G01B5/012 G01B5/20 G01B7/00 G01B7/008 G01B7/28 G01B9/02 G01C11/00 G01C11/02 G01C15/00 G01C9/00 G01D5/12 G01D9/00 G01S17/08 G01S17/42 G01S17/89 G01S7/51 G03B21/14 G04D7/12 G05B15/02 G05B19/401 G05B19/406 G05B19/4061 G05B19/4063 G05B19/408 G05B23/02 G06F15/00 G06F19/00 G06K9/46 G06T7/13 G06T7/521 G06T7/73 G08B21/00 G08C19/00 G09G3/36 H04J3/06 H04L12/00 H04L7/00 H04N13/02 H04N13/204 H04N5/225 H04W56/00 (Advanced/Invention); G01B5/008 G01B5/012 (Advanced/Non-invention)

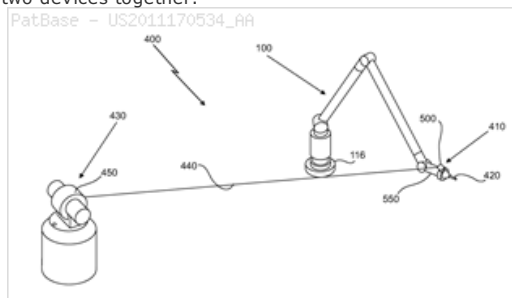
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Family:

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Probable Assignee: FARO TECHNOLOGIES INC

Assignee(s): (std): ATWELL PAUL ; ATWELL PAUL C ; BAILEY BRENT ; BARBER MARC M ; FARO TECH INC ; BRIGGS CLARK H ; DANIELSON DAVID M ; BRIDGES ROBERT E ; DANIELSON DAVID ; HOFFER JR JOHN M ; YORK FREDERICK JOHN ; STOKES BURNHAM ; SEEGER HERBERT GORDON ; MACFARLANE KEITH G ; PEREZ ORLANDO ; PARKER DAVID H ; YORK FREDERICK ; SEEGER HERBERT G ; KRETSCHMER KLAUS

Assignee(s): FARO TECHNOLOGIES ; FARO TECHNOLOGIES INC

Inventor(s): (std): KLAUS KRETSCHMER ; YADAV JOYDEEP ; STOKES BURNHAM ; JOHN M HOFFER JR ; HOFFER JOHN M JR ; JOHN YORK FREDERICK ; DAVID PARKER ; KRETSCHMER KLAUS ; PEREZ ORLANDO ; YORK FREDERICK JOHN ; HOFFER JOHN M ; FREDERICK JOHN YORK ; HOFFER JR JOHN M ; BRIGGS CLARK H ; ATWELL PAUL C ; BAILEY BRENT ; SEEGER HERBERT GORDON ; ROBERT E BRIDGES ; BURNHAM STOKES ; PAUL C ATWELL ; MARC M BARBER ; CLARK H BRIGGS ; BRENT BAILEY ; ATWELL PAUL ; DANIELSON DAVID ; MACFARLANE KEITH G ; SEEGER HERBERT G ; BARBER MARC M ; DANIELSON DAVID M ; BRIDGES ROBERT E ; PARKER DAVID H ; YORK FREDERICK ; JOH YORK FREDERICK

Inventor(s): YORK FREDERICK JOH ; DAVID H PARKER ; DAVID M DANIELSON ; ORLANDO PEREZ ; JOHN M HOFFER ; HERBERT GORDON SEEGER ; KEITH G MACFARLANE ; PARKER DAVID

Agent(s): SIECKER ERIC JOHANNES ; YKI INTELLECTUAL PROPERTY ATTORNEYS ; YKI PATENT ATTORNEYS ; CANTOR COLBURN LLP ; KOSAKOWSKI RICHARD H ; CHRISTENSEN DAVE S ; BARRY ANNE DAVIS ; O BRADOVICH GREG J ; BARRY ANNE DAVIS ET AL ; CHRISTENSEN DAVE S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

17) Family number: 62004916 (US2017271904A)

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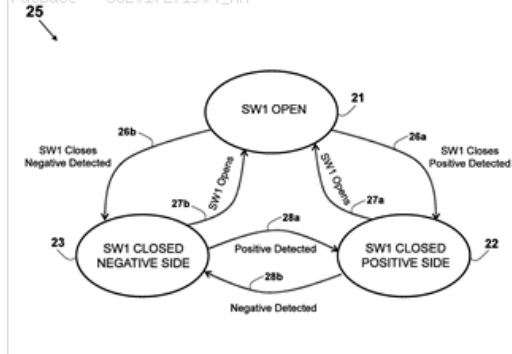
Title: A METHOD AND APPARATUS FOR CONTROLLING A LOAD

Abstract: A method and apparatus for switching AC power to a lamp (or other load) via a two terminal switch device. The switch device comprises a first electrically controlled switch, such as a triac or relay, and a second electrically controlled resistance or switch connected in series to the first switch. A diode is connected in parallel to the second switch. When the first switch is open, only a leakage current is flowing through the switch device, supplied to an AC/DC converter for producing a low DC voltage to the switch device logic and other low-voltage circuits and for charging a capacitor. When the first switch is closed, the second switch is controlled to be conductive for allowing powering the lamp from the AC power. During part of a positive half-cycle of the AC voltage, a closed loop regulates a DC voltage over the second switch terminals for providing a low DC voltage for charging a capacitor. At least during a negative half-cycle of the AC voltage, the low DC voltage is provided from the capacitor.

Classifications:

International (IPC 8-9): H02J13/00 H02J3/00 H02J3/10 H02J7/00 H02J7/02 H02M1/00 H03K17/00 H05B H05B37/02 H05B39/02 H05B39/04 (Advanced/Invention); H02J7/34 H04W4/00 H04W4/80 H04W84/12 (Advanced/Non-invention); H05B (Subclass/Invention)

CPC: H02M2001/0006 H05B37/0227 H05B37/0245 H02J7/0068 H05B37/0272 H02J7/02 H02J7/345 H04W84/12 H05B39/041 H02J3/00 H04W4/80

**Family:**

Publication number	Publication date	Application number	Application date
AU2015323349 AA	20170406	AU20150323349	20150920
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EP3198999 A4	20180801	EP20150843420	20150920
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US2017271904 AA	20170921	US20150511315	20150920
US2018233938 AA	20180816	US20180955789	20180418
US9966779 BB	20180508	US20150511315	20150920
WO16046814 A2	20160331	WO20151L50946	20150920
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Priority:

US20140054019P 20140923 US20150511315 20150920 WO20151L50946 20150920
 US20170511315 20170315 US20180955789 20180418

Probable Assignee: SWITCHBEE LTD**Assignee(s):** (std): AMICHAH ZIV ; SWITCHBEE LTD ; ZIV AMICHAH**Inventor(s):** (std): ZIV AMICHAH ; AMICHAH ZIV**Agent(s):** GRIFFITH HACK; DONNELLY VICTORIA; BECKER KURIG STRAUS; DORIT BINDER SHEM TOV; MAY PATENTS LTD C O DORIT SHEM TOV; SHEM TOV DORIT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

18) Family number: 55004628 (US2013278076A)

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Title: TELEMETRY SYSTEM WITH **WIRELESS** POWER RECEIVER AND MONITORING DEVICES

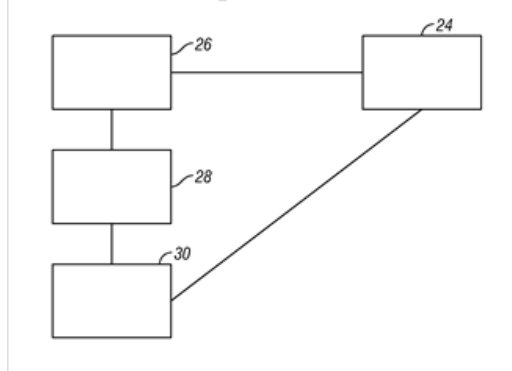
Abstract: A **wireless** power receiver includes a rectifier coupled to an antenna. The antenna receives a **wireless** power signal, and converts the signal to a direct current input signal. A direct current-to-direct current converter generates a direct current output signal based in part on the direct current input signal and a pulse-width modulation signal. A pulse modulator is configured to adjust an alternating current impedance of the **wireless** power receiver by modifying, based in part on the direct current input signal, a duty cycle of the pulse-width modulation signal to the direct current-to-direct current converter. A monitoring device is in communication with the rectifier and the pulse modulator. The monitoring device has one or more **sensors** and a unique user ID. The one or more **sensors** acquire user information selected from of at least one of, a user's activities, behaviors and habit information. ID circuitry is at the monitoring device.

Classifications:

International (IPC 8-9): A44C5/00 A44C5/20 A61B10/00 A61B5/00 A61B5/01 A61B5/02 A61B5/0205 A61B5/024 A61B5/04 A61B5/0404 A61B5/0456 A61B5/08 A61B5/103 A61B5/11 A61B5/113 A61B5/117 A61B5/145 A61B5/1455 A61B5/16 A61B5/22 A61B7/00 A61B7/02 A61B7/04 A61B90/90 A61B90/98 A61M21/02 A63B24/00 G01D4/00 G01K13/00 G05B19/00 G06F1/16 G06F15/16 G06F19/00 G06F21/00 G06F3/01 G06F9/44 G06F9/445 G06K19/04 G06K19/077 G06K7/10 G06Q10/00 G06Q10/10 G06Q20/02 G06Q20/08 G06Q20/32 G06Q20/40 G06Q40/00 G06Q40/04 G06Q50/24 G08B1/08 G08B19/00 G08B21/00 G08B21/02 G08B21/24 G08B23/00 G08B29/00 G08B5/36 G08C15/06 G08C15/08 G08C17/00 G08C17/02 G08C19/06 G08C19/16 G08C19/20 G08C19/22 G09F3/00 G10L21/00 G11B20/10 H01F27/42 H01F37/00 H01F38/00 H01F38/14 H02J17/00 H02J5/00 H02J50/10 H02J50/40 H02J50/80 H02J7/00 H02J7/02 H04B5/00 H04B5/02 H04L12/26 H04L29/00 H04L29/06 H04L29/08 H04L7/00 H04M11/00 H04M11/04 H04N7/14 H04N7/18 H04Q9/00 H04W4/00 H04W4/02 H04W4/08 H04W4/20 (Advanced/Invention);

A61B5/00 A61B5/01 A61B5/0205 A61B5/024 A61B5/05 A61B5/08 A61B5/103 A61B5/11 A61B5/113 A61B5/16 A61B90/30 A61M21/00 A63B24/00 C08L83/04 C09D183/00 G01C22/00 G06F19/00 G06F9/445 G08B21/04 H02J7/00 H02J7/02 H04L29/08 H04M11/725 H04M11/00 H04W4/02 (Advanced/Non-invention)

IPC: G06F8/65 G06Q50/24 G08B21/24 G08B23/00 G01D4/002 G10L21/00 A61B5/0026 A61B5/02 G06Q10/00 A61B2560/0219 H02J7/0044 G06Q40/00 G01D4/004 H04L43/18 A61B5/0075 A61B2560/0242 A61B2560/0443 H04M11/72569 A44C5/0007 H04L67/20 H04L67/306 H04W4/08 H04M11/002 A61B5/683 G01C22/006 H04W4/00 H04W4/027 A44C5/2071 A61B5/721 A61B5/7425 G08B21/0423 G08B21/0453 H04M11/7253 H04M2250/10 H02J50/60 G06F1/163 A44C5/0053 A44D2203/00 A61B5/024 A61B5/6807 A61B5/681 A61B5/7465 A61B5/747 H04L67/125 H02J50/40 H04B5/0031 H04B5/02



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Locarno class: 11/01

Family:

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Probable Assignee: FITBIT INC

Assignee(s): (std): FITBIT INC ; HELLO INC ; PROUD JAMES ; SHOOK ROBERT

Assignee(s): HELLO ASSIGNMENT FOR BENEFIT OF CREDITORS LLC

Inventor(s): (std): ASGARIAN HAMID ; FAN BRYAN ; FERNANDEZ JOAQUIN ; JOHNSON CHRIS ; JOSEPH BENJAMIN ; MORSHIGE KEVIN ; PROUD JAMES ; SHOOK ROBERT ; KELLEY JOHN ; HELLO INC ; FUSI DANIELE ; FULTON JOHN

Agent(s): PAUL; MINTZ; MINTZ LEVIN; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; BEYER LAW GROUP LLP; HOGAN LOVELLS US LLP; DAVIS PAUL ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

19) Family number: 40904564 (US2009141771A)

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Title: **TEMPERATURE**-SENSING AND TRANSMITTING ASSEMBLIES, PROGRAMMABLE **TEMPERATURE SENSOR** UNITS, AND METHODS OF MAKING AND USING THEM

Abstract: In an exemplary embodiment, a **temperature sensor** and a 4-20 mA transmitter on a single flexible circuit subassembly with a separate housing suitable for use in industrial control or **HVAC** applications. In a preferred embodiment, a narrow flex circuit substrate includes a silicon diode-based surface-mount **sensor** at a **sensor** end, a surface-mount programmable transmitter IC on a flex circuit substrate in the transmitter section, conductive traces connecting the **sensor** to the transmitter IC, and two conductive pads at an output end for connecting the 4-20 mA output to a pair of external wires. Additional traces on the flex subassembly are provided for testing and programming the transmitter IC and **sensor**. The **sensor** end of the flex subassembly is mounted in a metal **sensor** tube, filled and sealed in the same manner as RTD or thermistor **sensors** with leads are currently assembled for use in industrial control or **HVAC** applications.

Classifications:

International (IPC 8-9): G01K1/08 G01K1/14 G01K15/00 G01K7/00

G01K7/01 G01K7/16 (Advanced/Invention);

G01K1/08 G01K15/00 G01K7/00 G01K7/01 (Core/Invention)

International (IPC 1-7): A61K33/24

CPC: G01K1/14 G01K7/01 G01K7/16 G01K2201/00

European: G01K1/14 G01K7/01 G01K7/16 S01K201/00

US: 374/ E1.011 374/178 374/178P 374/179 374/208 374/208S 374/E1.011 374/E10.11S 374/E7.003 374/E70.03S 702/99 702/99S

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: FLIR SYSTEMS INC

Assignee(s): (std): KURTH ERIC A ; HOELTER THEODORE R ; HOEGASTEN NICHOLAS ; FRANK JEFFREY D ; JAMES JAY B ; JEPSON SHAWN ; SHARP BARBARA ; NUSSMEIER MARK ; STRANDEMAR KATRIN ; TEICH ANDREW C ; SIEH WEILMING ; XIANG LI ; ZHENMEI MAO ; RISDALL DAVID M ; RICHARDSON PATRICK B ; MAGOUN CARLETON M ; BOULANGER PIERRE ; DART DAVID W ; DISTELZWEIG JOHN H ; ELMFORS PER ; FLIR SYSTEMS

Assignee(s): FLIR SYSTEMS INC ; LEPORE GIOVANNI ; TERRE WILLIAM A ; SCANLON THOMAS J ; HOGASTEN NICHOLAS ; FLIR SYSTEMS INC27700 SW PARKWAY AVENUEWILSONVILLEOR97070US ; FOX MICHAEL

Inventor(s): (std): BIRCH KEVIN ; BURT WARN ; DART DAVID W ; DISTELZWEIG JOHN H ; ELMFORS PER ; FAIRFIELD NILE E ; FOX MICHAEL ; FRANK JEFFREY D ; GARROW STANLEY H ; HOEGASTEN NICHOLAS ; INGERHED MALIN ; JAMES JAY B ; JEPSON SHAWN ; KOSTRZEWA JOSEPH ; LEE DAVID W ; LEPORE GIOVANNI ; MAGOUN CARLETON M ; NUSSMEIER MARK ; RICHARDS AUSTIN A ; RICHARDSON PATRICK B ; RISDALL DAVID M ; SCANLON THOMAS J ; SIEH WEILMING ; STOUT ARTHUR ; STRANDEMAR KATRIN ; HOGASTEN NICHOLAS ; TEICH ANDREW C ; WHITE VICTORIA L ; XIANG LI ; ZHENMEI MAO ; T R HOELTER ; T J SCANLON ; SHARP BARBARA ; TERRE WILLIAM A ; N HOEGASTEN ; K STRANDEMAR ; HOELTER THEODORE R ; BOULANGER PIERRE ; M FOX ; KURTH ERIC A ; P BOULANGER ; J KOSTRZEWA ; E A KURTH ; B SHARP

Inventor(s): BSHARP ; EAKURTH ; JKOSTRZEWA ; KSTRANDEMAR ; PBOULANGER ; MFOX ; TERRE WILLIAM AUS ; NHOEGASTEN ; TRHOELTER ; TJSCANLON ; TEICH ANDREW CUS ; HOGASTEN NICHOLASUS ; STRANDEMAR KATRINSE ; SCANLON THOMAS JUS ; LEPORE GIOVANNIUS ; HOELTER THEODORE RUS ; FOX MICHAELUS

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; KITZLER MICHAEL; HAYNES AND BOONE LLP; FOLSOM BRENT A; MICHELSON GREGORY J

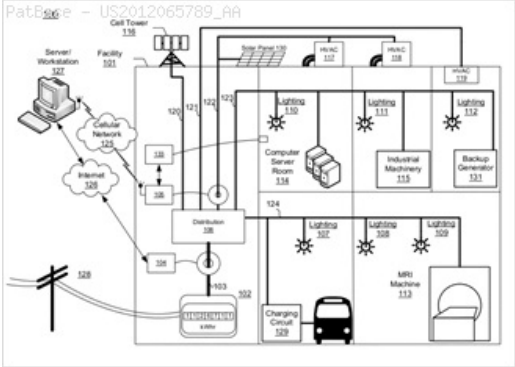
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

21) Family number: 50788968 (US2012065789A) © PatBase

Title: DETERMINING ENERGY CONSUMPTION IN A STRUCTURE

Abstract: Methods, apparatus, and systems are provided for measuring the supply of a consumable product/energy source, such as electrical power, to a facility over time and analyzing the measurements to determine the consumption or supply of the product by one or more loads and/or sources in the facility, and to determine induced and residual heat flow through the facility's envelope. Various aspects compare the measured supply of the consumable product to a database of consumption signatures, which characterize access to the consumable product by particular users. In doing so, costs for the product may be more accurately divided between different tenants of the facility without having to install individual services or measurement equipment for each individual tenant. Operating conditions and facility characteristics, such as temperatures, load factors, insulation factors, etc., may be further considered in determining a particular user's access of the consumable product. To aid in the controlling of energy use, thermal resistance factors of the building are determined, which are based on the induced and residual heat flow through the facility. Various algorithms are used including smart agents (e.g. neural networks) to determine the consumption of the consumable product by a particular user, to create the database of consumption signatures, and to determine the thermal resistance factors.

Classifications:
International (IPC 8-9): E04B1/00 G01F1/708 G01F5/00 G01J5/00 G01K1/02 G01K11/28 G01K13/00 G01K17/20 G01K7/04 G01N25/18 G01R21/00 G01R21/133 G05B11/01 G05B13/00 G05D23/13 G05D23/19 G05F1/66 G06F1/26 G06F15/00 G06F17/00 G06N5/04 G06Q10/00 G06Q20/00 G06Q20/14 G06Q30/00 G06Q40/00 G06Q50/06 G08B17/00 H04N7/18 (Advanced/Invention)
CPC: G01R21/1333 Y10T29/49007 Y02P80/21 G01K1/024 G01K1/026 G01K7/04 G01K13/00 G01N25/18 G06N5/04 G06Q20/145 G08B17/00 G05D23/1393 G01R21/133 G05B2219/2614 G01R21/00 G01K17/20 G06Q10/00 G06Q50/06 G05F1/66 G06Q30/018 G05B2219/2642 G05B11/01 Y02P90/84
European: G01K17/20 G06Q50/06
US: 1/1 250/338.1 29/595 348/135 348/135P 348/E7.085 348/E70.85S 374/141 52/745.21 52/745.210S 700/276 700/276P 700/286 700/291 700/291P 700/295 702/127 702/127S 702/136 702/136S 702/60 702/61 702/61P 705/34 705/35 705/35S 705/412 705/412S 705/63 73/202.5 73/861.95



Family:

Publication number	Publication date	Application number	Application date
EP2461144 A2	20120606	EP20110191905	20111205
EP2461144 A3	20131218	EP20110191905	20111205
US2012065789 AA	20120315	US20100960149	20101203
US2012194670 AA	20120802	US20120446290	20120413
US2012197562 AA	20120802	US20120446286	20120413
US2012203380 AA	20120809	US20120446288	20120413
US2013204439 AA	20130808	US20130800831	20130313
US2014328372 AA	20141106	US20140335194	20140718
US2015066404 AA	20150305	US20140492442	20140922
US2016116921 AA	20160428	US20150927735	20151030
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Priority:

US20090557992 20090911	US20090557992 20091109	US20100960149 20101203
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Probable Assignee: NETESCO LLC

Assignee(s): (std): BONWELL WILLIAM SHAWN ; HARTMAN MARK CHRISTOPHER ; NETESCO LLC ; SCELZI JAMES ; SCELZI MICHAEL CRAIG ; VAITSES ALLAN H

Assignee(s): NETMETERING INC ; NET METERING INC

Inventor(s): (std): BONWELL WILLIAM SHAWN ; SCELZI JAMES ; HARTMAN MARK CHRISTOPHER ; VAITSES ALLAN H ;

Agent(s): JANSEN CORNELIS MARINUS; BANNER AND WITCOFF LTD**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**22) Family number: 31962984** (US2005119794A)

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Title: **CONTROLLER** WITH PROGRAMMABLE SERVICE EVENT DISPLAY MODE

Abstract: **Controllers** and systems for displaying servicing information via a display unit are disclosed. A **controller** in accordance with an illustrative embodiment of the present invention may include an interface for programming a service event display mode in the **controller**, and a display unit configured to display servicing information when a service event is detected by the **controller**. An event such as the triggering of a service indicator or the expiration of an equipment service event timer may cause the **controller** to display servicing information on the display unit, informing the user that servicing may be necessary or is recommended.

Classifications:

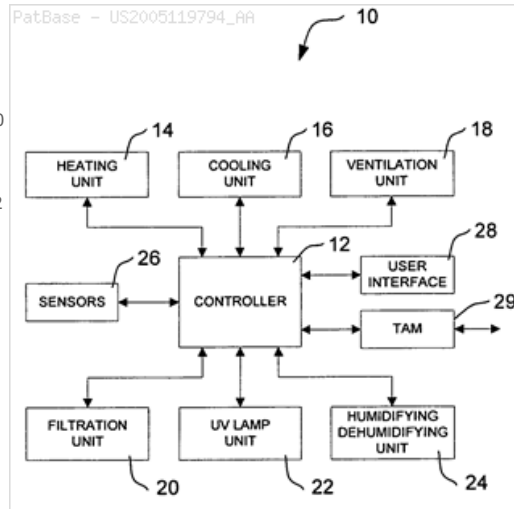
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International (ipc 1-7): B60H1/00 G05B13/00 G05B19/00 G05D23/00

CPC: G05B19/0423 G06F3/04847 G06F3/04842 F24F11/30 F24F11/52 F24F11/61 F24F11/62 G05D23/1902

European: G05D23/00 G05D23/19B4

US: 1/1 236/94 236/94P 345/554 700/15 700/17 700/276 700/278 700/278S 700/83 700/86 710/13 715/705 715/771

**Family:**

Publication number	Publication date	Application number	Application date
CN100572119 C	20091223	CN200480035742	20041129
CN1890120 A	20070103	CN200480035742	20041129
EP1689602 A2	20060816	EP20040812381	20041129
HK1102576 A1	20071130	HK20070106993	20070629
HK1102576 A3	20071130	HK20070106993	20070629
US2005119794 AA	20050602	US20030726243	20031202
US2007225869 AA	20070927	US20070752816	20070523
US2007278320 AA	20071206	US20070840290	20070817
US2014025209 AA	20140123	US20130047825	20131007
US2015268652 AA	20150924	US20150729500	20150603
US7225054 BB	20070529	US20030726243	20031202
US7801646 BB	20100921	US20070752816	20070523
US8554374 BB	20131008	US20070840290	20070817
US9081393 BB	20150714	US20130047825	20131007
WO05057303 A2	20050623	WO2004US39848	20041129
WO05057303 A3	20060223	WO2004US39848	20041129

Priority:

US20030726243 20031002	US20030726243 20031202	WO2004US39848 20041129
US20070752816 20070523	US20070840290 20070817	US20130047825 20131007
US20150729500 20150603		

Probable Assignee: ADEMCO INC**Assignee(s):** (std): AMUNDSON JOHN B ; HONEYWELL INT INC ; STONER MARCUS D ; LUNACEK MICHAEL G ; JUNTUNEN ROBERT D**Assignee(s):** JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; HONEYWELL INTERNATIONAL INC ; HONEYWELL INT ; ADEMCO INC**Inventor(s):** (std): AMUNDSON JOHN B ; AMUNDSON JOHN B STONER MARCUS ; LUNACEK MICHAEL ; STONER MARCUS D ; LUNACEK MICHAEL G ; JUNTUNEN ROBERT D**Inventor(s):** AMUNDSON JOHN ; STONER MARCUS ; JUNTUNEN ROBERT**Agent(s):** CHINA PATENT AGENT HK LTD; HONEYWELL INT INC; CROMPTON SEAGER AND TUFTE LLC; SEAGER TUFTE AND WICKHEM LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

23) Family number: 61559652 (US2016029896A)

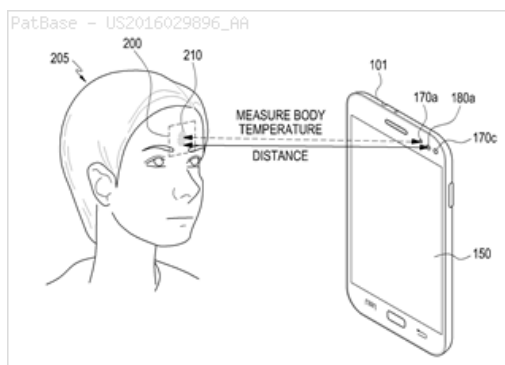
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Title: APPARATUS AND METHOD FOR ENHANCING ACCURACY OF A CONTACTLESS BODY **TEMPERATURE** MEASUREMENT

Abstract: An electronic device for enhancing accuracy of a contactless body **temperature** measurement is provided. The electronic device includes a camera module for determining whether an image of an object is in focus, a **temperature sensor** for measuring a **temperature** of the object, and a **processor** for determining, as a **temperature** of the object, a **temperature** output from the **temperature sensor** corresponding to a focus matching time as a result of determining whether the image of the object is in focus.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/01 G01J5/00 G01J5/02 G01J5/08 G01K13/00 G02B7/00 H04M1/725 H04N5/217 H04N5/225 H04N5/232 (Advanced/Invention); H04M1/21 (Advanced/Non-invention)
CPC: A61B5/015 H04N5/23212 H04N5/2171 A61B5/0075 A61B5/002 A61B5/0008 A61B5/0013 A61B5/7203 A61B5/7221 A61B5/742 H04M2250/12 A61B5/0077 A61B5/6803 A61B5/681 A61B5/6898 A61B5/7445 H04M1/72522 A61B5/01 G01J5/0025 G01J5/025 G01J5/0265 G01J5/0859 G01J5/089 G01J2005/0077 H04M1/21
US: 600/474



Family:

Publication number	Publication date	Application number	Application date
CN105310659 A	20160210	CN201510424770	20150717
DE602015008130 D1	20180322	DE201560008130T	20150730
EP2980548 A1	20160203	EP20150178981	20150730
EP2980548 B1	20180221	EP20150178981	20150730
IN02193DE2015 A	20160624	IN2015DE02193	20150720
KR20160015785 A	20160215	KR20140098488	20140731
TW201610401 A	20160316	TW20150124306	20150728
US2016029896 AA	20160204	US20150725580	20150529
US2016113517 AA	20160428	US20160990352	20160107
US10226184 BB	20190312	US20150725580	20150529
WO16018108 A1	20160204	WO2015KR08009	20150730

Priority:

KR20140098488 20140731 US20150725580 20150529 EP20150178981 20150730
US20160990352 20160107

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

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Assignee(s): SAMSUNG ELECTRONICS CO LTD SUWON SI ; SAMSUNG ELECTRONICS CO

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Inventor(s): JUNE HYEON AHN ; JEA HYUCK LEE ; MIN HYOUNG LEE ; JAE GEOL CHO ; JUNG TAEK OH

Agent(s): GULDE AND PARTNER PATENT U RECHTSANWALTSKANZLEI MBB; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; FARRELL LAW FIRM PC; LEE KEON JOO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

24) Family number: 9937527 (US5065813A)

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Title: INTERACTIVE ELECTRONIC THERMOSTAT WITH INSTALLATION ASSISTANCE

Abstract: An interactive electronic thermostat operates to communicate with an installed through an audible or visual display and keypad to instruct the installer to perform tasks and enter observations to effect proper connections at the thermostat of heater/air conditioner wires in spite of the absence of labels identifying the functions of those wires. The thermostat requires entry of coded indicia representing operator-observed conditions in the system in response to displayed instructions carried out by the operator. Control circuits are automatically assigned functional tasks in response to the operator-observed conditions entered into the system. Different program routines are invoked depending upon the number of system wires and the type of heater/air conditioner being controlled. Under appropriate circumstances, messages are displayed informing the operator/homeowner that the thermostat is incompatible, or has no advantageous use, with the heater/air conditioner. In one embodiment the installer need only connect the wires to the thermostat terminals one time; the thermostat reconfigures its internal connection paths in response to installer-entered indicia to assure proper control of the system.

Classifications:

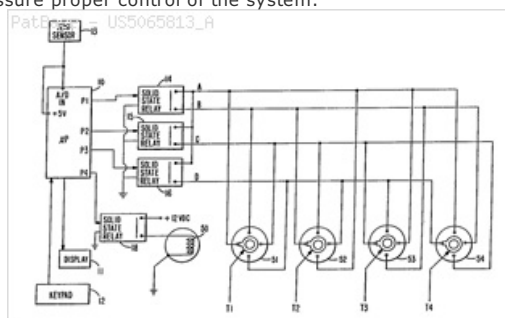
International (IPC 8-9): F24F11/00 F24F11/02 F24H9/20 G05D23/19 (Advanced/Invention); G05D23/19 (Core/Invention)

International (IPC 1-7): F24F11/02 F24H9/20 F25B23/00 F25B29/00 F25B49/00 G01R31/02 G05D23/00 G05D23/19

CPC: F24F11/30 F24F11/52 G05D23/1917 F24F2110/10

European: F24F11/00R3A G05D23/19D R24F11/00R9E

US: 165/1 165/11.1 165/12 165/259 165/26 236/46R 236/94 62/127 62/298 62/77



Family:

Publication number	Publication date	Application number	Application date
AT120535 E	19950415	AT19890900656T	19891207

AT159340 E	19971115	AT19920919079T	19920826
AU199048017 A1	19900626	AU19900048017	19891207
AU627267 B2	19920820	AU19900048017	19891207
CA2005189 AA	19900609	CA19892005189	19891211
CA2005189 C	19941227	CA19892005189	19891211
CA2116663 AA	19940228	CA19922116663	19920826
DE68921990 D1	19950504	DE19896021990	19891207
DE68921990 T2	19951123	DE19896021990T	19891207
DE69222778 D1	19971120	DE19926022778	19920826
EP0447458 A1	19910925	EP19900900656	19891207
EP0447458 A4	19920422	EP19900900656	19891207
EP0447458 B1	19950329	EP19900900656	19891207
EP0614516 A1	19940914	EP19920919079	19920826
EP0614516 A4	19950510	EP19920919079	19920826
EP0614516 B1	19971015	EP19920919079	19920826
ES2073013 T3	19950801	ES19900900656T	19891207
FI912729 A0	19910606	FI19910002729	19910606
FI95077 B	19950831	FI19910002729	19910606
FI95077 C	19951211	FI19910002729	19910606
HK23897 A	19970227	HK19970000238	19970227
NO180358 B	19961223	NO19910002185	19910606
NO180358 C	19970402	NO19910002185	19910606
NO912185 A	19910802	NO19910002185	19910606
NO912185 A0	19910606	NO19910002185	19910606
NO912185 L	19910802	NO19910002185	19910606
US5065813 A	19911119	US19880282319	19881209
US5161606 A	19921110	US19910750085	19910827
WO9006478 A1	19900614	WO1989US05480	19891207
WO9304326 A1	19930304	WO1992US07099	19920826

Priority:

US19880282319 19881209 WO1989US05480 19891207 CA19892005189 19891211
US19910750085 19910827 WO1992US07099 19920826 WO1992US07099 19920826

Probable Assignee: BERKELEY ARNOLD D

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Inventor(s): (std): CARNEY DANIEL ; JEFFERSON DONALD ; JEFFERSON DONALD E ; BERKELEY ARNOLD ; CARNEY DANIEL C ; BERSTEIN ALEC ; BERNSTEIN ALEC ; BERKELEY ARNOLD D ; ALEC BERSTEIN

Inventor(s): ARNOLD D BERKELEY ; BERKELEY ARNOLD D WASHINGTON D C 20006 US ; BERSTEIN ALEC BALTIMORE MD 21201 US ; BERNSTEIN ALEC PASADENA CA 91101 US ; DANIEL C CARNEY ; CARNEY DANIEL C BROOKLYN NY 11222 US

Agent(s): GRIFFITH HACK

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR HU IE IT JP KR LI LU MC NL NO SE SU

25) Family number: 61704143 (US2016102878A)

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Title: DATA MANAGEMENT PROFILE FOR A FABRIC NETWORK

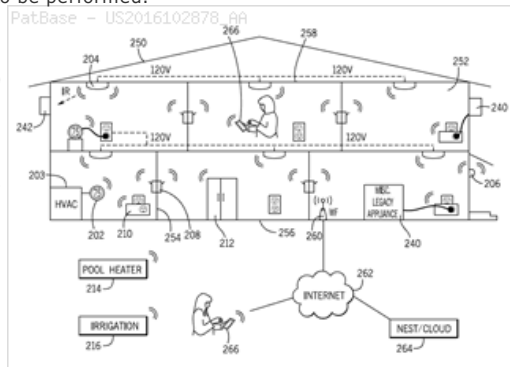
Abstract: Method and systems for controlling data remotely that includes connecting to a remote device within a fabric of smart devices. The remote device stores data locally. Controlling the data includes remotely controlling the data stored in the remote device from another device connected to the fabric by transmitting a message to the remote device. Moreover, the transmitted message includes a profile identifier that causes a data management entity of the remote device to perform an indicated data management action. Furthermore, the profile identifier identifies a data management profile, and the message includes a command tag that indicates the data management action to be performed.

Classifications:

International (ipc 8-9): F24F11/00 F24F11/30 F24F11/62 G05B13/00 G05B15/00 G05B15/02 G05B19/042 G05B21/00 G05D23/00 G06F15/16 G06F15/173 G06F17/30 G06F7/04 G08B17/10 G08B25/00 G08B29/02 H04L12/24 H04L12/26 H04L12/28 H04L12/741 H04L12/751 H04L29/06 H04L29/08 H04L29/12 (Advanced/Invention); G06F12/00 (Advanced/Non-invention)

CPC: H04L67/143 H04L67/12 G05B15/02 H04L67/10 H04L41/0816 H04L63/08 H04L45/74 H04L45/02 H04L29/06 G08B29/02 H04L67/303 G08B25/001 G08B17/10 H04L12/283 H04L43/0805 H04L67/06 H04L67/02 G05B19/042 G05B2219/2642 H04L67/141 H04L12/2803 H04L69/28 H04L67/26 F24F11/30 F24F11/62 F24F11/006 G06F16/33 G06F16/38 H04L12/281 H04L12/2818 H04L12/2823 H04L41/0806 H04L61/1511 H04L61/1541 H04L63/0823 H04W4/80 H04W12/04 H04L65/1069

US: 1/1 340/501 340/506 370/392 700/276 707/695 709/217 709/221 709/224 709/227 726/4



US2016173613 AA	20160616	US20160050195	20160222
US2016225250 AA	20160804	US20160096063	20160411
US2016248647 AA	20160825	US20160143082	20160429
US2016306879 AA	20161020	US20160187531	20160620
US2016344830 AA	20161124	US20160228939	20160804
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US2018183751 AA	20180628	US20180905374	20180226
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Priority:

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Probable Assignee: GOOGLE INC

Assignee(s): (std): DIXON MICHAEL ; GOOGLE INC ; GOOGLE LLC ; GUJJARU SUNNY VARDHAN ; NEST LABS INC ; SMITH ZACH B ; LU JIAKANG

Inventor(s): (std): LOGUE JAY D ; STEBBINS ANDREW W ; TRIMBLE TAYLOR J ; SZEWCZYK ROBERT ; NEELEY MATTHEW G ; ERICKSON GRANT M ; SMITH ZACHARY B ; GUJJARU SUNNY VARDHAN ; LU JIAKANG ; DIXON MICHAEL ; SCHULTZ RICHARD J ; SMITH ZACH B

Agent(s): BOULT WADE TENNANT; WOLFE SBMC; COLBY NIPPER; FLETCHER MICHAEL G ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

26) Family number: 57415033 (US2014262130A)

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Title: SMART **HVAC** MANIFOLD SYSTEM

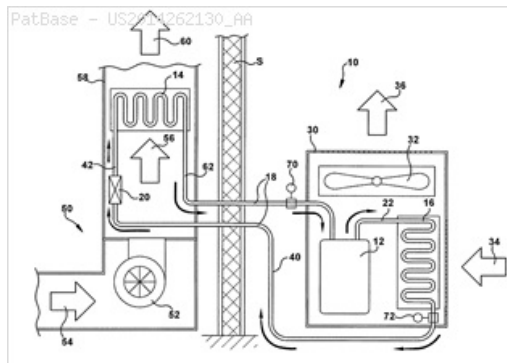
Abstract: The smart **HVAC** manifold system for servicing air conditioning systems is designed to dynamically manage the data acquisition process and to measure and calculate the performance indicators and output as the load conditions and or equipment operation change taking into account variables in the installation that can impact performance. Both visually and by a very specific data set the performance of the equipment and the installation can quickly be assessed and specific problems identified along with suggestions of typical faults or problems that may need addressed by the technician. The smart **HVAC** manifold system provides a means of quickly and electronically handling the manual data acquisition process which would include component and or system model and serial numbers, equipment location (GPS tagging), customer name, environmental conditions that effect performance and performance measurement (weather data and elevation), and supports photo, voice and text documentation. These features streamline data acquisition, allow remote support, and minimizing transcription errors and preventing data-gaming when servicing equipment, commissioning or retro commissioning the system.

Classifications:

International (IPC 8-9): F24F11/00 F24F11/02 F24F11/38 F24F11/49 F24F11/50 F24F13/02 F25B45/00 F28F27/00 G05B15/02 G05B23/02 G06F19/00 G06F19/00 (Advanced/Invention)

CPC: G05B15/02 G05B23/0216 G05B2219/25062 G05B2219/2614 G05B2219/2642 F24F11/30 F24F11/52 F24F11/56 F24F11/58 F24F11/89 G05B23/0272

US: 165/11.1



Family:

Publication number	Publication date	Application number	Application date
AU2014238453 AA	20151008	AU20140238453	20140121
AU2014238453 BB	20170601	AU20140238453	20140121
CA2906287 AA	20150914	CA20142906287	20140121
CA2906287 C	20180508	CA20142906287	20140121
EP2973120 A1	20160120	EP20140767983	20140121
EP2973120 A4	20161109	EP20140767983	20140121
US2014262130 AA	20140918	US20140160006	20140121

US2017350616 AA	20171207	US20170673768	20170810
WO14149174 A1	20140925	WO2014US12324	20140121

Priority:

US20130793660P 20130315 US20140160006 20140121 WO2014US12324 20140121
US20170673768 20170810

Probable Assignee: STRIDE TOOL LLC

Assignee(s): (std): STRIDE TOOL INC ; NORTH PARK INNOVATIONS GROUP INC

Assignee(s): YENNI EDWARD ; VIELHABER TIMOTHY ; NORTHRUP WILLIAM ; SPOHN WILLIAM P ; RODGERS DAVID ; PODHRADSKY JOHN ; KEYBANK NATIONAL ASSOCIATION ; STRIDE TOOL LLC ; ALOSTAR BANK OF COMMERCE ; BERGMANN JAMES L ; BONITATI ROBERT JAMES ; CAPITALSOUTH SBIC FUND IV LP

Inventor(s): (std): BERGMANN JAMES L ; BONITATI ROBERT JAMES ; NORTHRUP WILLIAM ; PODHRADSKY JOHN ; RODGERS DAVID ; SPOHN WILLIAM P ; VIELHABER TIMOTHY ; YENNI EDWARD

Agent(s): FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; SIM AND MCBURNEY; MARKS AND CLERK; MARTIN PHILIP JOHN; WESORICK RICHARD S

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

27) Family number: 49410021 (US2011200954A)

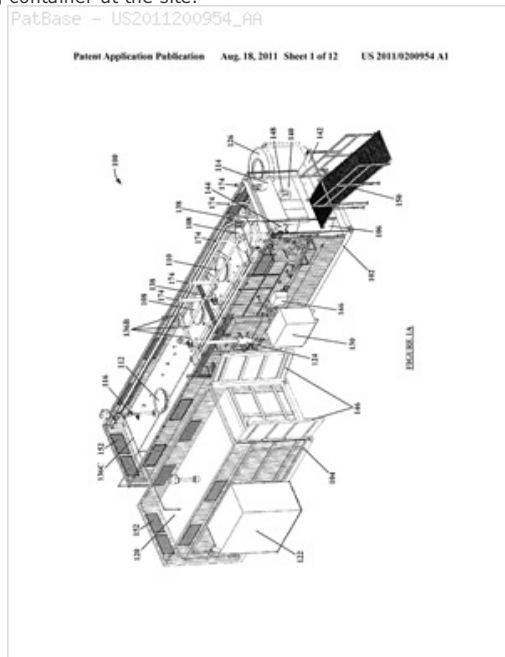
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Title: RENEWABLE ENERGY MICROGENERATION SYSTEM

Abstract: A renewable energy microgeneration system is disclosed. The system includes a portable processing container with a mixing tank for mixing waste with a liquid, a macerating pump in fluid communication with the mixing tank that is configured to macerate the waste into smaller pieces, a plurality of small holding tanks in fluid communication with the mixing tank that are configured to perform at least one of a pasteurization thermophilic anaerobic digestion on the waste, a large holding tank in fluid communication with the plurality of small holding tanks that is configured to perform mesophilic anaerobic digestion on the waste after at least one of a pasteurization thermophilic anaerobic digestion is performed on the waste, and a de-watering unit in fluid communication with the large holding tank that is configured to dry what remains of the waste after mesophilic anaerobic digestion is performed on the waste; a **controller** for automating the flow of the waste between the mixing tank, the plurality of small holding tanks, the large holding tank, and the de-watering unit such that a user does not need to complete any tasks for performing mesophilic anaerobic digestion after the waste is loaded into the mixing tank; and a portable gas storage container comprising a gas storage tank that is configured to store biogas generated by the mesophilic anaerobic digestion, wherein the portable processing container and the portable gas storage container are configured to be transported to a site and placed in fluid communication with each other so the gas storage tank can store biogas generated by mesophilic anaerobic digestion in the processing container at the site.

Classifications:

International (IPC 8-9): B09B3/00 C02F11/04 C02F3/00 C02F3/28 C05F11/00 C05F17/00 C05F17/02 C05F3/00 C05F3/06 C05F7/00 C05F9/00 C05F9/02 C10L3/10 C12M C12M1/00 C12M1/107 F02D19/02 F02M21/02 F23L7/00 F23Q2/32 H02K7/18 (Advanced/Invention); C12M1/107 (Core/Invention); C12M (Subclass/Invention)
CPC: C12M1/107 C05F17/0027 C05F17/0211 C12M21/04 C12M23/36 C12M23/52 C12M23/58 C12M43/08 C12M45/20 Y02E50/343 Y02T10/16 Y02W10/37 Y02W30/43 Y02W30/47 C02F11/04 C02F3/006 C02F3/2866 C05F11/00 C02F2303/02 C02F2301/106 C02F2303/26 C02F3/28 Y02P20/129 Y02P20/133 Y02P20/136 Y02P20/145 Y02P20/59 C05F17/0036 C05F7/00 C05F3/00 C05F3/06 C05F9/00 C05F9/02 C05F17/0258 H02K7/1815 Y02A40/205 Y02A40/208 Y02A40/213 Y02A40/214 Y02A40/215
European: C12M21/04 C12M23/36 C12M23/52 C12M43/08 C12M45/20 Y02E50/34B
US: 1/1 210/104 210/138 210/143 210/150 210/151 210/173 210/175 210/259 210/603 210/609 210/612 210/614 290/1R 431/2 431/253 431/253S 431/2P 435/262 435/262S 435/290.4 435/290.400S 71/10



Family:

Publication number	Publication date	Application number	Application date
AP201206558 A0	20121231	AP20120006558	20110412
AP3961 A	20161224	AP20120006558	20110412
AU2011241894 AA	20111020	AU20110241894	20110412
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CN104357316 A	20150218	CN201410498852	20110412
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CO6640291 A2	20130322	CO20120203731	20121113

EA030144 B1	20180629	EA20120001399	20110412
EA201201399 A1	20130430	EA20120001399	20110412
EP2504420 A2	20121003	EP20110748711	20110412
EP2781589 A1	20140924	EP20140164699	20110412
GB201203901 A0	20120418	GB20120003901	20110412
GB2484883 A1	20120425	GB20120003901	20110412
GB2484883 B2	20130925	GB20120003901	20110412
HK1182126 A1	20131122	HK20130109554	20130815
HK1182126 A1	20160729	HK20130109554	20130815
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IN09713DN2012 A	20140613	IN2012DN09713	20121109
JP2013529126 T2	20130718	JP20130504357T	20110412
JP5861945 B2	20160216	JP20130504357T	20110412
MX2012011958 A1	20130320	MX20120011958	20110412
MX338720 B	20160427	MX20120011958	20110412
MY165671 A	20180418	MY20120004565	20110412
NZ603493 A	20141031	NZ20110603493	20110412
TH131627 A	20140317	TH20121005422	20120905
US2011200954 AA	20110818	US20110085320	20110412
US2012312742 AA	20121213	US20120526024	20120618
US2013264279 AA	20131010	US20130910682	20130605
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US2017247278 AA	20170831	US20170596479	20170516
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US9682880 BB	20170620	US20160995407	20160114
WO11128781 A2	20111020	WO20111B01279	20110412
WO11128781 A3	20111222	WO20111B01279	20110412
ZA201402950 A	20150429	ZA20140002950	20140423

Priority:

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US20100323186P 20101204 CN201180028990 20110412 EP20110748711 20110412
US20110085320 20110412 WO20111B01279 20110412 US20120526024 20120618
US20130910682 20130605 US20160995407 20160114 US20170596479 20170516

Probable Assignee: SEAB ENERGY LTD

Assignee(s): (std): BH24 3DA ; SASSOW NICOLAS W ; SEAB ENERGY HOLDINGS LTD ; SEAB ENERGY LTD

Inventor(s): (std): SASSOW NICOLAS W ; SASSON NICOLAS W ; SASSOW NICOLAS W W ; SASSOW NICOLAS

Inventor(s): NICOLAS W SASSON ; NICOLAS W SASSOW

Agent(s): LESICAR MURRAY TRENTO; MURRAY TRENTO AND ASSOCIATES; MURRAY TRENTO AND ASSOCIATES PTY LTD; BROUILLETTE AND ASSOCIES PARTNERS; BROUILLETTE LEGAL INC; ANDES IP; ELIANA REYES FERNANDEZ; FRY DAVID JOHN; SAYER ROBERT DAVID; BAKER BOTTS LLP; BAKER BOTTS L L P

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

28) Family number: 62794997 (US2019110692A)

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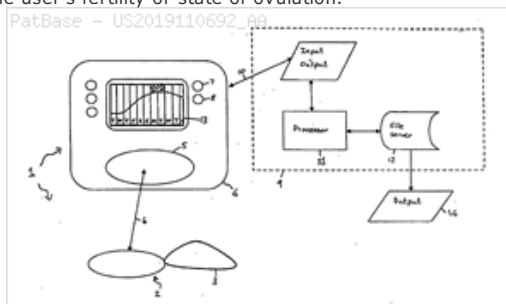
Title: PROCESSING A PHYSICAL SIGNAL

Abstract: There are described herein methods and apparatus for processing a physical signal, in particular for processing data obtained in relation to the physical characteristics of a user, in particular a female user. One or more **sensors** can be used to obtain the data, in particular indwelling thermometers, aural thermometers, blood pressure and heart rate monitors. There are also described herein methods and apparatus for analysing and further processing the data to obtain and provide health information in relation to the user, in particular in relation to the user's fertility or state of ovulation.

Classifications:

International (IPC 8-9): A61B10/00 A61B5/00 A61B5/01 G01K13/00 (Advanced/Invention)

CPC: A61B2010/0019 G01K13/022 G01J5/0025 G01J5/025 G01J5/06 A61B2010/0032 G01K13/004 G01K13/002 A61B5/4337 A61B5/02055 A61B5/02438 A61B5/1118 A61B5/4306 A61B5/4803 A61B5/6817 A61B5/721 A61B5/6815 A61B5/01 A61B7/023 A61B5/0002 A61B5/021 A61B5/02405 A61B5/0402 A61B5/053 A61B5/11 A61B5/14539 A61B5/14542 A61B5/00 A61B5/4325 A61B2562/0271 A61B5/7275 A61B5/7225 A61B5/7282 A61B10/0012



Family:

Publication number	Publication date	Application number	Application date
GB2533614 A1	20160629	GB20140023092	20141223
GB2533615 A1	20160629	GB20140023098	20141223
GB2533774 A1	20160706	GB20140023108	20141223
US2019110692 AA	20190418	US20150539499	20151223
WO16102971 A2	20160630	WO2015GB54153	20151223
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Priority:

Probable Assignee: FERTILITY FOCUS LTD

Assignee(s): (std): FERTILITY FOCUS LTD ; MILNES ROBERT ; PARDEY JAMES

Inventor(s): (std): PARDEY JAMES ; MILNES ROBERT ; ROBERT MILNES ; JAMES PARDEY

Agent(s): WARREN CAROLINE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

29) Family number: 50665885 (US2012046792A)

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Title: **WIRELESS SENSORS** SYSTEM AND METHOD OF USING SAME

Abstract: An apparatus, system, and methods for measuring environmental parameters are disclosed. The apparatus, system, and methods can be used for a variety of applications, including **HVAC** air balancing and building commissioning. The system includes a variety of **wireless** sensing modules and wearable modules for control, display, and storage. Parameters measured include air and water **temperature**, pressure, velocity, and flow. Also included are **sensors** for light intensity, CO concentrations, and CO2 concentrations.

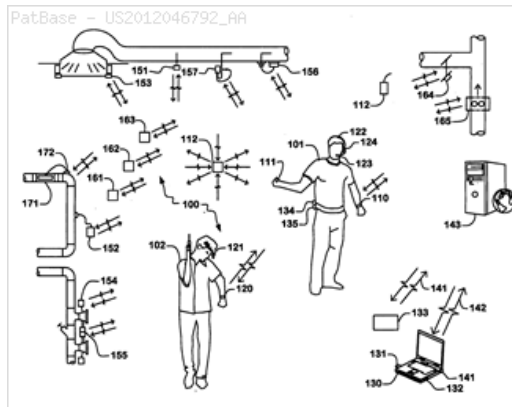
Classifications:

International (IPC 8-9): F24F11/00 G01F1/34 G01F1/46 G01N7/00 G05B19/042 G05B19/048 G05D23/19 G06F15/00 G06F19/00 (Advanced/Invention)

CPC: F24F11/0001 G01F1/46 G01F1/34 G05B19/042 G05B2219/23136 G05B2219/24084 G05B2219/2614 Y02B30/78 G05B19/048 F24F2011/0002 F24F11/30 F24F11/52 F24F11/56 F24F11/62 F24F2110/10 F24F2110/12 F24F2110/20 F24F2110/30 F24F2110/40 F24F2110/70 F24F2110/72

European: F24F11/00R9 R24F11/00R3A R24F11/00R3B R24F11/00R3C11 R24F11/00R3C9 R24F11/00R3E R24F11/00R3F1 R24F11/00R5F

US: 1/1 700/276 700/276P 702/188 702/188S 702/45 702/45S 73/23.2 73/23.200S 73/861 73/861.42 73/861.420S 73/861.65 73/861.650P 73/861.66 73/861S



Family:

Publication number	Publication date	Application number	Application date
US2012046792 AA	20120223	US20110136814	20110811
US2012085179 AA	20120412	US20110317498	20111019
US2013190931 AA	20130725	US20130790265	20130308
US2014208869 AA	20140731	US20130077118	20131111
US2017198930 AA	20170713	US20170472172	20170328
US8578790 BB	20131112	US20110317498	20111019
US9074917 BB	20150707	US20130077118	20131111
US9605857 BB	20170328	US20110136814	20110811

Priority:

US20100401336P 20100811 US20110463549P 20110219 US20110136814 20110811
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US20170472172 20170328

Probable Assignee: EVERGREEN TELEMETRY LLC

Assignee(s): (std): EVERGREEN TELEMETRY LLC ; SECOR RUSSELL P

Inventor(s): (std): SECOR RUSSELL P

Agent(s): DONALD J; ADAM R STEPHENSON LTD

30) Family number: 53976655 (US2013140988A)

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Title: TUNABLE LED LAMP FOR PRODUCING BIOLOGICALLY-ADJUSTED LIGHT

Abstract: A tunable light-emitting diode (LED) lamp for producing an adjustable light output. In one embodiment, the LED lamp includes a drive circuit for driving LED dies in one of a plurality of light output configurations (e.g., a pre-sleep configuration, a phase-shift configuration, and a general lighting configuration). Further, the LED lamp may include an output-select **controller** and/or input **sensor** electrically coupled to the drive circuit to select the light output configuration. As such, the LED lamp is tunable to generate different levels of spectral output, appropriate for varying biological circumstance, while maintaining a commercially acceptable light quality and color rendering index.

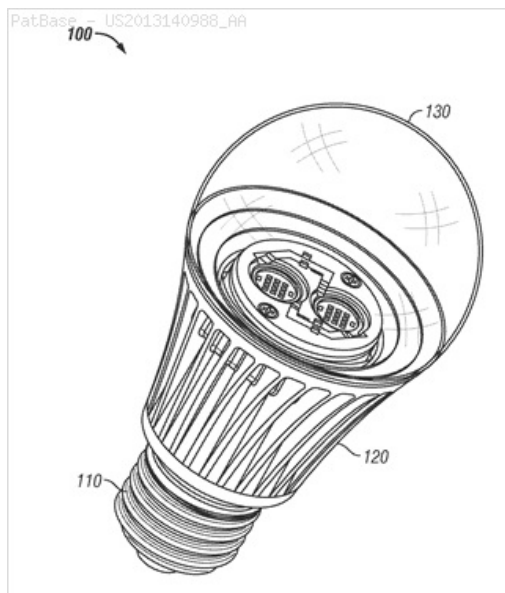
Classifications:

International (IPC 8-9): A61M21/00 A61M21/02 A61N5/06 F21K9/23 F21K9/232 F21K9/238 F21K99/00 F21S9/02 F21V23/00 F21V23/04 F21V29/02 F21V7/00 F21V9/08 F21Y101/00 F21Y101/02 F21Y105/10 F21Y105/12 F21Y113/00 F21Y113/13 F21Y113/17 F21Y115/10 H01J13/32 H01K1/14 H01L27/15 H01L33/62 H05B33/08 H05B37/02 (Advanced/Invention);

A61B5/00 A61M21/00 A61N5/06 F21K9/23 F21S9/02 F21V19/00 F21V23/00 F21V23/04 F21V29/00 F21V29/74 F21V3/02 F21V3/04 F21V7/22 F21Y101/00 F21Y101/02 F21Y103/00 F21Y105/10 F21Y105/12 F21Y113/00 F21Y113/13 F21Y113/17 F21Y115/10 (Advanced/Non-invention)

CPC: H05B33/0845 F21V7/0008 F21V7/0058 F21V7/22 F21V19/0055

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A61N2005/0663 H05B33/0857 F21V23/006 A61M2021/0083
F21Y2103/10 H05B33/0842 A61M2021/0005 A61M2205/3306
A61M2205/502 A61N2005/0651 F21K9/232 F21Y2105/10
F21Y2105/12 F21Y2113/13 F21Y2113/17 H05B33/0803 H05B33/0872
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F21S8/022 F21K9/27 F21K9/60 A61M21/02 A61M2021/0027
A61M2021/0044 A61M2021/0066 A61M2205/3368 A61N2005/0627
F21K9/23 F21S9/02 F21V23/045 F21Y2101/00 F21Y2115/10
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Y02B20/19 A61B5/4857 A61M2205/3592 A61M2205/505
A61M2230/63 H05B37/0227 H05B37/0281 Y02B20/42 A61M2230/005
US: 1/1 257/E33.058 315/113 315/152 315/192 315/291 315/294
315/297 315/307 315/308 362/231 362/235 438/28 607/88



Family:

Publication number	Publication date	Application number	Application date
CN104114932 A	20141022	CN201280059488	20121205
CN104114932 B	20171020	CN201280059488	20121205
CN106999723 A	20170801	CN201580067930	20151012
EP2788674 A2	20141015	EP20120813179	20121205
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EP3207305 A1	20170823	EP20150790329	20151012
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US9827439 BB	20171128	US20150590557	20150106
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WO17155843 A1	20170914	WO2017US20852	20170306

Priority:

US20100842887	20100723	US20110107928	20110515	US20110174339	20110630
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US20170483327	20170410	US20180935391	20180326		

Probable Assignee: BIOLOGICAL ILLUMINATION LLC

Assignee(s): (std): BARTINE DAVID E ; BIOLOG ILLUMINATION LLC ; MAXIK FREDRIC S ; GROVE ELIZA KATAR ; BIOLOGICAL ILLUMINATION LLC ; BRETSCHNEIDER ERIC ; SOLER ROBERT R

Assignee(s): MEDLEY CAPTIAL AGENT AS CORP ; ACF FINCO I LP ; ACF FINCO I LP AGENT AS ; FCC LLC D B A FIRST CAPITAL AGENT AS ; BIOLOGICAL ILLUMINATION LLC A DELAWARE LIABILITY CO LTD ; LIGHTING SCIENCE GROUP A DELAWARE CORP ; LIGHTING SCIENCE GROUP CORP

Inventor(s): (std): BARTINE DAVID ; GROVE ELIZA ; MAXIK FREDRIC ; OOSTDYK MARK ANDREW ; SOLER ROBERT ; SOLER ROBERT S ; SOLER ROBERT R ; REGAN MATTHEW ; MAXIK FREDRIC S ; GROVE ELIZA KATAR ;

FLICKINGER GREGORY ; BARTINE DAVID E ; BRETSCHNEIDER ERIC

Agent(s): LOVEN KEITH JAMES; FIORENTINO LUCA; MARK R; ZIES WIDERMANN AND MALEK; DANIEL C;
WIDERMANN MALEK PL; DANIEL; MARK; PAUL J; STEPHEN; MALEK MARK; DITMYER PAUL; MALEK MARK
R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU
ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG
MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC
SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

31) Family number: 53426492 (US2013085609A) © PatBase

Title: OCCUPANCY DRIVEN PATIENT ROOM ENVIRONMENTAL CONTROL

Abstract: Using a real-time location system, the hospital environment is controlled locally. By categorizing individuals detected at different locations, the proper control may be provided to enhance energy savings and maintain a comfortable patient environment without sacrificing safety. By altering the environment within a room for patients and not staff and/or based on the type of patient, more optimized and localized control may be provided, such as implementing a number of air changes per hour appropriate for detected patients within rooms.

Classifications:

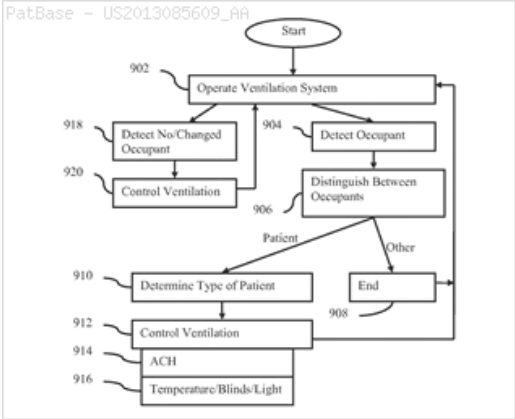
International (IPC 8-9): A61G10/00 F24F11/00 G05B15/02
G05B19/418 G05D23/19 G06Q50/22 H04L12/28

H04L29/08 (Advanced/Invention)

International (IPC 1-7): A61G10/00 F24F11/00 G05B19/418
H04L12/28 H04L29/08

CPC: H04L12/2832 H04L12/2829 H04L2012/2841 H04L2012/285
H05B37/0227 A61G10/02 A61G13/108 H04L67/12 H04L67/125
Y02B20/40 A61G2203/46 G05B2219/2642 G05B15/02 G05B19/418
A61G10/00 F24F11/0001 F24F11/30 F24F2120/12 F24F2120/10

US: 700/275 700/276 700/277



Family:

Publication number	Publication date	Application number	Application date
AU2012316017 AA	20130404	AU20120316017	20120927
BR112014007696 A2	20170613	BR20141107696	20120927
BR112014007696 A2	20190430	BR20141107696	20120927
BR112014007720 A2	20170613	BR20141107720	20120927
BR112014007720 A2	20190424	BR20141107720	20120927
CA2850544 AA	20140328	CA20122850544	20120927
CA2850545 AA	20140328	CA20122850545	20120927
CN103843306 A	20140604	CN201280047287	20120927
CN103918243 A	20140709	CN201280054718	20120927
EP2761855 A2	20140806	EP20120772650	20120927
EP2761857 A2	20140806	EP20120795881	20120927
IN01617DN2014 A	20150515	IN2014DN01617	20140304
KR20140069306 A	20140609	KR20147011436	20120927
MX2014003635 A1	20140521	MX20140003635	20120927
MX2014003655 A1	20140521	MX20140003655	20120927
SG11201400654Y A1	20140828	SG20141100654	20120927
US2013085609 AA	20130404	US20120474231	20120517
US2013085615 AA	20130404	US20120398593	20120216
WO13049297 A2	20130404	WO2012US57476	20120927
WO13049297 A3	20130815	WO2012US57476	20120927
WO13049336 A2	20130404	WO2012US57538	20120927
WO13049336 A3	20130620	WO2012US57538	20120927

Priority:

US20110541653P 20110930 US20120398593 20120216 US20120474231 20120517
WO2012US57476 20120927 WO2012US57538 20120927

Probable Assignee: SIEMENS IND INC

Assignee(s): (std): BARKER KIMBERLY ANN ; SIEMENS IND INC ; SIEMENS INDUSTRY INC

Inventor(s): (std): KIMBERLY ANN BARKER ; BARKER KIMBERLY ANN

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; FISCHER MICHAEL; BURTON THOMAS J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID
IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR
MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK
SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

32) Family number: 43144289 (US2009097975A) © PatBase

Title: CEILING FAN WITH CONCENTRIC STATIONARY TUBE AND POWER-DOWN FEATURES

Abstract: A fan system comprises a hub, a plurality of fan blades, a drive system, and a stationary tube. The hub is configured to rotate. The fan blades are mounted to the hub. The drive system comprises a rotatable hollow output shaft. The hollow output shaft is in communication with the hub, such that the drive system is operable to rotate the hub via the hollow output shaft. The stationary tube is inserted through the hollow output shaft. The stationary tube is configured to remain stationary as the hollow output shaft rotates. Wires and the like may be passed through the stationary tube, to reach an accessory mounted at the bottom of the stationary tube. The fan system may also include a detector, such as a heat detector, a smoke detector, or an accelerometer. The detector may power down the fan system in response to detecting certain conditions.

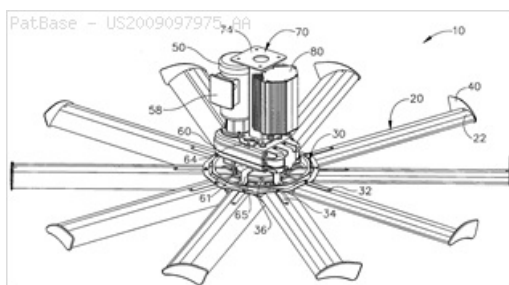
Classifications:

International (IPC 8-9): A62C37/00 F01D15/12 F01D5/16 F01D7/00 F03D11/02 F04B35/04 F04D13/06 F04D19/00 F04D25/06 F04D25/08 F04D27/00 F04D27/02 F04D29/00 F04D29/05 F04D29/32 F04D29/34 F04D29/38 F04D29/58 F04D29/60 F04D29/64 F24F11/00 F24F7/00 G05B15/00 G05B15/02 H02K7/14 H02P1/04 (Advanced/Invention); A62C37/00 F01D15/00 F01D7/00 F03D11/00 F04B35/00 F04D29/00 G05B15/00 H02K7/14 H02P1/00 (Core/Invention)

CPC: F04D27/008 F04D27/001 F04D27/02 F04D27/004 F04D29/34 F04D29/384 F04D29/601 F04D25/088 F04D29/646 F04D25/068 F04D29/5806 F04D29/329 F24F11/52 F24F11/77 F04D29/5866

European: F04D25/08D F04D27/00B F04D27/00F F04D27/02 F04D27/02P F04D29/34 F04D29/38C F04D29/60C

US: 1/1 239/75 239/75S 415/119 415/122.1 416/204R 416/32 416/32P 416/5 416/5P 416/61 416/61S 417/410.1 417/410.100S 417/42 417/423.1 417/423.14 417/44.1 417/63 417/63P 700/275 700/275S



Family:

Publication number	Publication date	Application number	Application date
AU2008310813 AA	20090416	AU20080310813	20081009
AU2008310813 BB	20130919	AU20080310813	20081009
AU2009221730 AA	20090911	AU20090221730	20090306
AU2010214786 AA	20100923	AU20100214786	20100903
AU2010214786 BB	20131017	AU20100214786	20100903
BRPI0817880 A2	20150331	BR2008PI17880	20081009
BRPI0908552 A2	20121225	BR2009PI08552	20090306
BRPI0923674 A2	20131112	BR2009PI23674	20090306
CA2700551 AA	20100323	CA20082700551	20081009
CA2700551 C	20160209	CA20082700551	20081009
CA2718512 AA	20100914	CA20092718512	20090306
CA2718512 C	20161018	CA20092718512	20090306
CA2941957 AA	20090911	CA20092941957	20090306
CN101821934 A	20100901	CN200880111034	20081009
CN101821934 B	20130102	CN200880111034	20081009
CN102072183 A	20110525	CN201010613113	20090306
CN102072183 B	20140903	CN201010613113	20090306
CN102245862 A	20111116	CN200980115418	20090306
CN102245862 B	20140702	CN200980115418	20090306
EP2198510 A1	20100623	EP20080838545	20081009
EP2198510 A4	20150211	EP20080838545	20081009
EP2198510 B1	20170118	EP20080838545	20081009
EP2260183 A1	20101215	EP20090716279	20090306
EP2260183 A4	20150826	EP20090716279	20090306
EP2267314 A2	20101229	EP20100178071	20090306
EP2267314 A3	20150826	EP20100178071	20090306
ES2620822 T3	20170629	ES20080838545T	20081009
MX2010003208 A1	20100623	MX20100003208	20081009
MX2010009777 A1	20110525	MX20100009777	20090306
MX339390 B	20160520	MX20130012961	20100906
SG10201402822W A1	20140828	SG20141002822	20090306
SG167824 A1	20110128	SG20100008909	20090306
SG188815 A1	20130430	SG20130014378	20090306
US2009097975 AA	20090416	US20080249086	20081010
US2009208333 AA	20090820	US20090399428	20090306
US2012177509 AA	20120712	US20120420700	20120315
US2014023507 AA	20140123	US20130942164	20130715
US2017089346 AA	20170330	US20160284127	20161003
US2017101999 AA	20170413	US20160384361	20161220
US8147182 BB	20120403	US20080249086	20081010
US8672649 BB	20140318	US20090399428	20090306
US8876468 BB	20141104	US20120420700	20120315
US9458859 BB	20161004	US20130942164	20130715
WO09049052 A1	20090416	WO2008US79352	20081009
WO09111708 A1	20090911	WO2009US36347	20090306

Priority:

US20070978860P 20071010	US20080034254P 20080306	EP20080838545 20081009
WO2008US79352 20081009	US20080249086 20081010	AU20090221730 20090306
CA20092718512 20090306	EP20090716279 20090306	US20090399428 20090306
WO2009US36347 20090306	US20120420700 20120315	US20130942164 20130715
US20160284127 20161003	US20160384361 20161220	CA20172718512 20170131

Probable Assignee: ASPEN MOTION TECHNOLOGIES INC

Assignee(s): (std): AYNLEY RICHARD MICHAEL ; AYNLEY RICHARD ; DELTA T CORP ; AYNLEY RICHARD M ; CAREY SMITH ; DELTA T COPORATION ; DELTA CORP ; FIZER RICHARD W ; OLESON RICHARD ; FIZER RICHARD ; LANGSTON JOHN B ; KLEMO ELIOS ; FLANARY RON G ; JOHN LANGSTON ; MARK TOY ; JOH LANGSTON ; FLANARY RON ; MOOG INC ; OLESON RICHARD A ; SMITH J CAREY ; SMITH J ; TOY MARK A ; RON FLANARY ; RICHARD AYNLEY ; TROY ANDERSON ; RICHARD OLESON ; RICHARD FIZER ; TROY GANDERSON ; ANDERSON TROY A ; ASPEN MOTION TECH INC ; ASPEN MOTION TECHNOLOGIES INC

Assignee(s): ASPEN MOTION TECHNOLOGIES INC1120 ROCK ROADRADFORDVA24141US ; DELTA T CORP2425 MERCHANT STREETLEXINGTONKY40511US ; HSBC BANK USA NATIONAL ASSOCIATION ; DELTA T LLC ; J SMITH ; ELIOS KLEMO ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AG AS

Inventor(s): (std): FIZER RICHARD ; AYNLEY RICHARD ; SMITH J ; OLESON RICHARD ; SMITH J CAREY ; AYNLEY RICHARD MICHAEL ; OLESON RICHARD A ; FIZER RICHARD W ; FIZER RICAHRD ; RICHARD FIZER ; RICHARD AYNLEY ; RICHARD OLESON ; SMITH CAREY J ; GANDERSON TROY A ; FLANARY RON ; LANGSTON JOH B ; FLANARY RON G ; ANDERSON TROY A ; KLEMO ELIOS ; AYNLEY RICHARD M ; LANGSTON JOHN B ; TOY MARK A ; CAREY SMITH J ; ELIOS KLEMO

Inventor(s): CAREY J SMITH ; JOH B LANGSTON ; TROY A GANDERSON ; RON FLANARY ; J SMITH ; RICAHRD FIZER ; RON G FLANARY ; MARK A TOY ; RICHARD W FIZER ; JOHN B LANGSTON ; TROY A ANDERSON ; J CAREY SMITH ; RICHARD M AYNLEY ; RICHARD A OLESON ; TOY MARK AUS ; ANDERSON TROY AUS ; SMITH J CAREYUS ; KLEMO ELIOSUS ; AYNLEY RICHARD MAU ; FLANARY RON GUS ; FIZER RICHARD WUS ; LANGSTON JOHN BUS ; OLESON RICHARD AUS

Agent(s): MACPHERSON AND KELLEY ; JONES TULLOCH ; MACPHERSON AND KELLEY LAWYERS ; FURMAN IP LAW AND STRATEGY PC ; FINDLAY ALICE ROSEMARY ; UNGRIA JAVIER ; PATRICK MIRANDAH CO S PTE LTD ; FROST BROWN TODD LLC ; KING AND SCHICKLI PLLC ; ULMER ANDREW B ; ULMER ANDREW B ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

33) Family number: 57403530 (US2014282159A)

© PatBase

Title: ELECTRONIC DEVICE AND METHOD FOR CONTROLLING SCREEN DISPLAY USING **TEMPERATURE** AND HUMIDITY

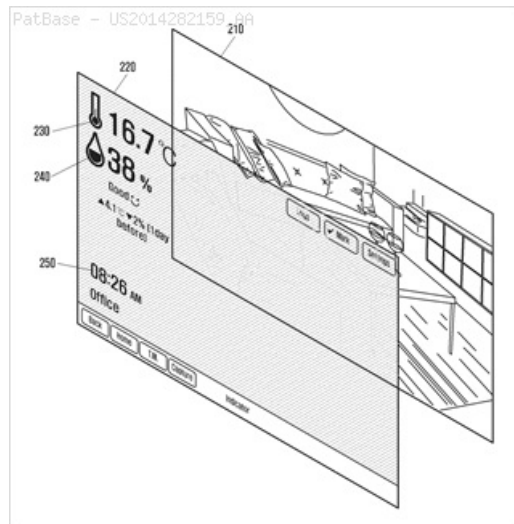
Abstract: A background image is displayed on a touch screen of an electronic device. Overlapped with the background image, a semitransparent layer is displayed. When a touch and drag action is detected from the semitransparent layer, the transparency of a touch and drag region is changed. Transparency of the semitransparent layer may be changed according to **temperature** or humidity.

Classifications:

International (IPC 8-9): G01K1/02 G01N37/00 G06F3/00 G06F3/041 G06F3/048 G06F3/0481 G06F3/0484 G06F3/0487 G06F3/0488 G06F3/14 (Advanced/Invention)

CPC: G06F3/0481 G06F3/04817 G06F3/0488 G06F3/0416 G06F3/0412 G06F3/0484 G06F2203/04804 H04M2250/12 H04M2250/22

US: 715/768



Family:

Publication number	Publication date	Application number	Application date
AU2014201585 AA	20141002	AU20140201585	20140314
CA2846059 AA	20140914	CA20142846059	20140313
CN104049888 A	20140917	CN201410095604	20140314
EP2778884 A2	20140917	EP20140159505	20140313
EP2778884 A3	20171122	EP20140159505	20140313
IN00309KO2014 A	20160826	IN2014KO00309	20140313
JP2014179102 A2	20140925	JP20140051613	20140314
JP6363365 B2	20180725	JP20140051613	20140314
KR20140112918 A	20140924	KR20130027595	20130314
RU2014110018 A	20150920	RU20140110018	20140314
RU2678482 C2	20190129	RU20140110018	20140314
TW201437902 A	20141001	TW20140109510	20140314
TWI640914 B	20181111	TW20140109510	20140314
US2014282159 AA	20140918	US20140208544	20140313
US2018300019 AA	20181018	US20180014409	20180621

Priority:

KR20130027595 20130314 US20140208544 20140313 US20180014409 20180621

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO ; SAMSUNG ELECTRONICS CO LTD129, SAMSUNG-ROYEONGTONG-GUGYEONGGI-DO 443-742SUWON-SIKR ; PARK HYE BIN ; NA MINWOOK ; SHIN JONGWOO ; SAMSUNG ELEKTRONIKS KO LTD ; SAMSUNG ELEKTRONIKS KO ; YOO HYUNWOO ; AHN YUMI ; CHOI JUNGWOO ; KANG JIYOUNG ; LEE BOYOUNG

Inventor(s): (std): AKHN YUMI ; CHOI JUNG WOO ; CHOI JUNGWOO ; CHOJ DZUNGVOO ; JOO KHIUNVOO ; KANG DZIJOUNG ; KANG JI YOUNG ; KANG JIYOUNG ; AHN YU MI ; AHN YUMI ; LEE BO YOUNG ; LEE BOYOUNG ; LI BOJOUNG ; NA MIN WOOK ; NA MINVUK ; NA MINWOOK ; YOO HYUN WOO ; YOO HYUNWOO ; PARK KHIBIN ; SHIN DZONGVOO ; SHIN JONG WOO ; SHIN JONGWOO ; PARK HYE BIN ; PARK HYE BIN ; SHIN JON WOO

Inventor(s): PARK HYE BINKR ; SHIN JONG WOOKR ; YOO HYUN WOOKR ; YUMI AHN ; MIN WOOK NA ; JUNG WOO CHOI ; JONG WOO SHIN ; JI YOUNG KANG ; HYUN WOO YOO ; HYE BIN PARK ; BO YOUNG LEE ; NA MIN WOOK KR ; LEE BO YOUNG KR ; AHN YUMI KR ; KANG JI YOUNG KR ; CHOI JUNG WOOK R

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; GOVER RICHARD PAUL; HGF LTD; YURIDICHESKAYA GORODISSKIY I PARTNERY OOO FA

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

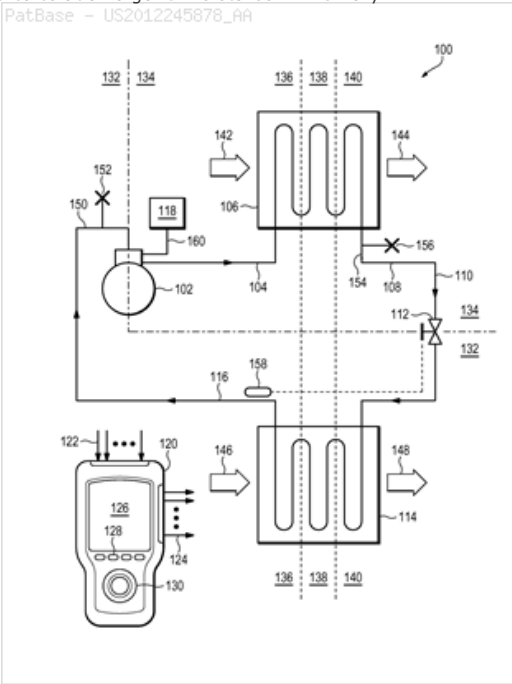
34) Family number: 51981032 (US2012245878A) © PatBase

Title: HANDHELD HVAC/R TEST AND MEASUREMENT INSTRUMENT

Abstract: A handheld HVAC/R test and measurement instrument having a display, a keypad, a microprocessor, memory, and circuitry adapted to receive inputs from a plurality of sensors and to automatically determine the type of each sensor and automatically determine and display which HVAC/R tests and measurements are available to be performed by the field service technician using only the plurality of sensors. Different kits of sensors are used for various tests and measurements routinely performed when servicing HVAC/R systems, and the handheld instrument automatically identifies the sensors connected to it and leads the technician through the tests and measurements that can be performed using those sensor inputs in combination with technical reference information and calculation algorithms stored in memory.

Classifications:

International (IPC 8-9): G01D7/00 G06F19/00 (Advanced/Invention)
CPC: G01D7/00 G05B15/02 G05B23/0264 G05B23/0272 F24F11/30 F24F11/56 F24F2110/00
US: 702/116 702/33



Family:

Publication number	Publication date	Application number	Application date
US2012245878 AA	20120927	US20110072636	20110325
US2013245965 AA	20130919	US20130875683	20130502

Priority:

US20110072636 20110325 US20130768546P 20130225 US20130875683 20130502

Probable Assignee: UNIVERSAL ENTERPRISES INC

Assignee(s): (std): KANE MICHAEL JOHN ; TIERNEY SEAN PATRICK ; UNIVERSAL ENTPR INC ; WHEATON DAVID LAUREN

Assignee(s): UNIVERSAL ENTERPRISES INC

Inventor(s): (std): KANE MICHAEL JOHN ; WHEATON DAVID LAUREN ; TIERNEY SEAN PATRICK

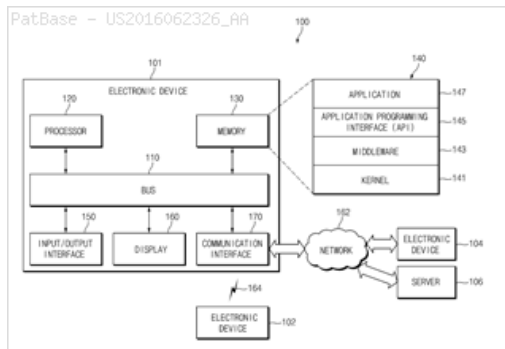
35) Family number: 61777767 (US2016062326A) © PatBase

Title: DEVICE FOR CONTROLLING PERFORMANCE OF THE DEVICE BASED ON FLUCTUATIONS IN INTERNAL TEMPERATURE AND METHOD THEREOF

Abstract: An electronic device, a method of controlling performance of the electronic device, and a chipset thereof is provided. The electronic device includes a sensor module configured to measure an internal temperature of the electronic device, a surface temperature predicting module to predict a surface temperature of the electronic device using the measured internal temperature, and a processor to control at least a portion of performance of the electronic device based on the predicted surface temperature. The method includes measuring an internal temperature of the electronic device; predicting a surface temperature of the electronic device using the measured internal temperature; and controlling at least a portion of performance of the electronic device based on the predicted surface temperature.

Classifications:

International (IPC 8-9): G05B13/02 G05D23/20 G06F1/08 G06F1/20 G06F1/32 (Advanced/Invention)
CPC: G05B13/026 G06F1/08 G06F1/3206 G06F1/324 G06F1/3265 G06F1/206 Y02D10/126 Y02D10/153
US: 700/299

**Family:**

Publication number	Publication date	Application number	Application date
CN105388931 A	20160309	CN201510547745	20150831
EP2990907 A2	20160302	EP20150182957	20150828
EP2990907 A3	20160525	EP20150182957	20150828
KR20160026329 A	20160309	KR20140114588	20140829
US2016062326 AA	20160303	US20150840983	20150831

Priority:

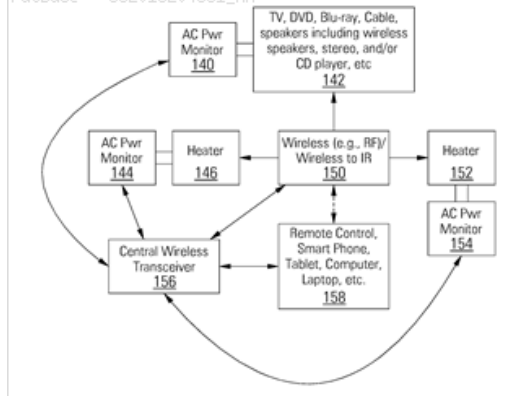
KR20140114588 20140829

Probable Assignee: SAMSUNG ELECTRONICS CO LTD**Assignee(s):** (std): SAMSUNG ELECTRONICS CO LTD**Assignee(s):** SAMSUNG ELECTRONICS CO**Inventor(s):** (std): KIM BYUNG WOOK ; LEE JU BEAM ; BANG SUNG YONG ; KIM MOO YOUNG**Agent(s):** LUBBERDINK PIM**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**36) Family number: 59879770 (US2015204561A)**

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Title: CONTROL SYSTEM WITH MOBILE **SENSORS****Abstract:** A mobile thermostat and home automation system.**Classifications:****International (IPC 8-9):** A61M21/02 F21V33/00 F24F11/00 H05B33/08 H05B37/02 (Advanced/Invention)**CPC:** G05D23/1905 H05B37/029 A61M21/02 H05B37/0281 H05B33/0896 H05B37/0272 A61M2021/0044 A61M2021/0083 A61M2205/3303 A61M2205/3306 A61M2205/3368 H05B33/0872 F24F11/56 F24F11/62 F24F2110/10 F24F11/30**US:** 236/1C 236/49.3 236/51

PatBase - US2015204561_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2015204561 AA	20150723	US20150601217	20150120
US2017189640 AA	20170706	US20150321174	20150625
WO15200730 A1	20151230	WO2015US37838	20150625

Priority:US20140929480P 20140120
WO2015US37838 20150625US20140017162P 20140625
US20150321174 20150625

US20150601217 20150120

Probable Assignee: INNOSYS INC**Assignee(s):** (std): INNOSYS INC**Inventor(s):** (std): STODDARD SKYLAR ; SADWICK LAURENCE P ; KRESS DERRICK K**Agent(s):** CLINGER GUY**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**37) Family number: 57358476 (US2014250580A)**

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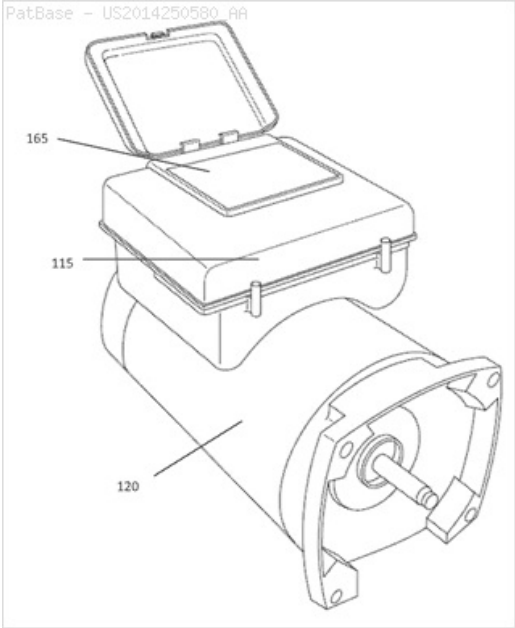
Abstract: A pump system including a motor, a fluid pump powered by the motor, a temperature sensor, and a controller. The controller including a processor and a computer readable memory storing instructions that, when executed by the processor, cause the controller to receive a first temperature value from the temperature sensor, receive a second temperature value from the temperature sensor, calculate a rate of temperature change by comparing the first temperature value and the second temperature value, calculate a heating offset value based on the rate of temperature change, and calculate an ambient temperature based on the second temperature value and the heating offset value.

Classifications:

International (IPC 8-9): F04D15/00 (Advanced/Invention)

CPC: F04D15/00 F04D15/0077 F04D15/0088

US: 4/494 417/32 417/63



Family:

Publication number	Publication date	Application number	Application date
US2014250580 AA	20140911	US20130790387	20130308

Priority:

US20130790387 20130308

Probable Assignee: REGAL BELOIT AMERICA INC

Assignee(s): (std): REGAL BELOIT AMERICA INC

Inventor(s): (std): MAGYAR JUSTIN M

38) Family number: 61997646 (US2016091904A)

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Title: HVAC SYSTEM CONTROL INTEGRATED WITH DEMAND RESPONSE, ON-SITE ENERGY STORAGE SYSTEM AND ON-SITE ENERGY GENERATION SYSTEM

Abstract: A thermal behavior model of a building may be constructed based on time series data. Based on the constructed thermal behavior model, forecasted zone temperature and energy usage for a next control time period may be predicted. An objective function may be constructed based on at least a dynamically priced grid energy cost, occupant comfort matrix, and one or more of: energy storage system cost and associated operational cost, and energy generation system cost and associated green house emission cost and associated operational cost. Constraints may be constructed based on at least the forecasted zone temperature values and energy usage values for the next control time period. A control profile of the HVAC system and sourcing decision of energy load of the HVAC system may be determined simultaneously based on the objective function and the plurality of constraints.

Classifications:

International (IPC 8-9): F24F11/00 G05B13/02 G05B13/04

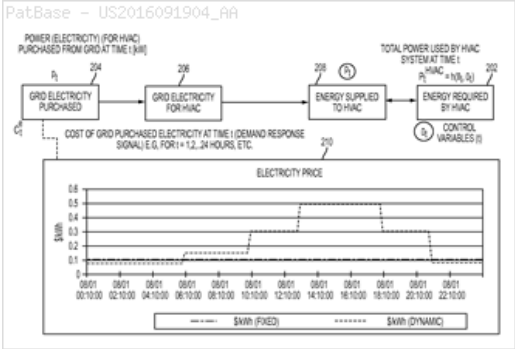
G05B15/02 G05B17/02 G05D23/19 G06Q50/06 (Advanced/Invention); H02J3/00 (Advanced/Non-invention)

CPC: G05D23/1917 G05B17/02 G05B13/02 G05B13/04 G05B15/02 G05D23/1904 G05D23/1923 G06Q50/06 H02J2003/003

H02J2003/007 Y02P80/11 F24F11/30 F24F2110/10 F24F2120/10

F24F2130/00 F24F2130/10 F24F2140/60

US: 700/276



Family:

Publication number	Publication date	Application number	Application date
US2016091904 AA	20160331	US20140500190	20140929
US9651929 BB	20170516	US20140500190	20140929

Priority:

US20140500190 20140929

Probable Assignee: IBM

Assignee(s): (std): IBM

Assignee(s): INT BUSINESS MACHINES CORP
Inventor(s): (std): HORESH RAYA ; LEE YOUNG M ; LIBERTI LEO S
Agent(s): SCULLY SCOTT MURPHY AND PRESSER PC; DANIEL P

39) Family number: 63677711 (US2018073930A)

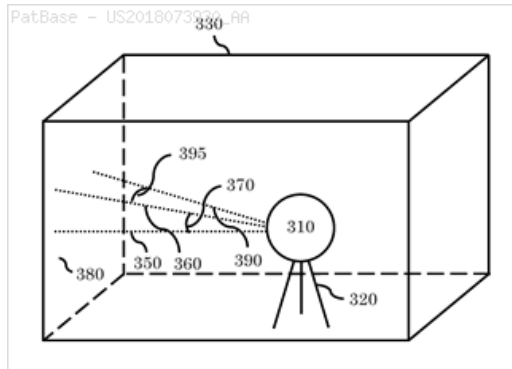
© PatBase

Title: SPHERICAL-MOTION AVERAGE RADIANT **TEMPERATURE SENSOR**

Abstract: A mean radiant **temperature sensor** is used to measure radiant heat exchange to determine comfort. Disclosed herein are a spherical-motion average radiant **temperature sensor** (SMART **Sensor**) device or system, and an associated method, for taking an average overall global reading while also being able to record weighting for different directions easily in spherical coordinates.

Classifications:

International (IPC 8-9): G01J5/00 G01J5/02 G01J5/04 G01J5/08 G01K1/14 (Advanced/Invention)
CPC: G01K1/14 G01K1/045 G01K3/06 G01J5/089 G01J5/0003 G01J5/0806 G01J5/02 G01J5/0025 G01J5/025 G01J5/028 G01J5/047 G01J5/0809



Family:

Publication number	Publication date	Application number	Application date
EP3274676 A1	20180131	EP20160769590	20160323
EP3274676 A4	20181107	EP20160769590	20160323
US2018073930 AA	20180315	US20160559218	20160323
WO16154282 A1	20160929	WO2016US23735	20160323

Priority:

US20150136893P 20150323 US20150170410P 20150603 WO2016US23735 20160323
US20160559218 20160323

Probable Assignee: UNIV PRINCETON

Assignee(s): (std): MEGGERS FORREST ; READ JAKE ; TEITELBAUM ERIC ; TRUSTEES OF PRINCETON UNIV ; UNIV PRINCETON

Inventor(s): (std): MEGGERS FORREST ; READ JAKE ; TEITELBAUM ERIC

Agent(s): FRKELLY; MEAGHER THOMAS F

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

40) Family number: 60396235 (US2015268641A)

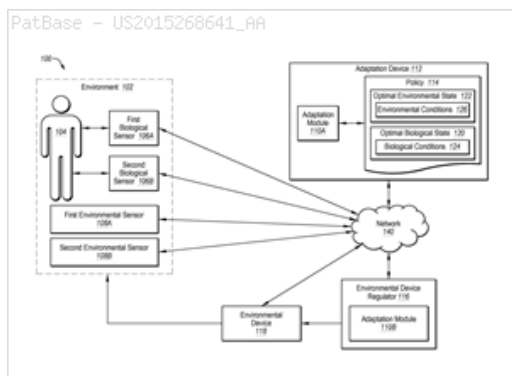
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Title: DYNAMIC ENVIRONMENT ADAPTATION

Abstract: A method of dynamically adapting an environment may include collecting **sensor** data from a biological **sensor** and an environmental **sensor**. The method may also include, based on the **sensor** data, determining whether an optimal environmental state exists in an environment. The optimal environmental state may be defined in a health and wellness policy and may be configured to promote an optimal biological state of an individual in the environment. In response to the optimal environmental state not existing in the environment, the method may include identifying an environmental condition that differs from the optimal environmental state and generating a command configured to alter an operational state of an environmental device that affects the environmental condition.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0402 A61B5/0476 A61M21/02 B60N2/06 B60N2/16 B60N2/22 B60N2/44 F24F11/02 G05B11/01 G05B15/02 G05D23/19 (Advanced/Invention)
CPC: A61B5/0006 A61B5/0008 A61B2560/0252 G05B2219/2614 G05B2219/2642 G05D23/1931 G05B15/02 G05D23/1917
US: 700/276 700/299 700/90



Family:

Publication number	Publication date	Application number	Application date
JP2015177976 A2	20151008	JP20150051200	20150313

US2015268641 AA	20150924	US20140218604	20140318
US9501049 BB	20161122	US20140218604	20140318

Priority:

US20140218604 20140318 JP20150051200 20150313

Probable Assignee: FUJITSU LTD

Assignee(s): (std): FUJITSU LTD

Inventor(s): (std): BALAKRISHNAN RAJALAKSHMI ; CHANDER AJAY ; RAJALAKSHMI BALAKRISHNAN

Agent(s): AOKI ATSUSHI; MASCHOFF BRENNAN

41) Family number: 64913816 (US2018238852A)

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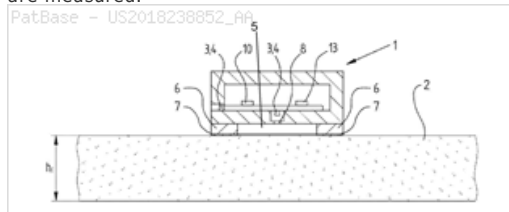
Title: METHOD AND DEVICE FOR DETERMINING THE **TEMPERATURE** AND HUMIDITY OF A BUILDING

Abstract: The invention relates to a method and a device for determining the **temperature** and moisture of a structure, having at least one **temperature sensor** and at least one moisture **sensor**, wherein a water-vapor diffusion-impermeable volume is formed on the surface of the structure, and, after reaching a state of equilibrium, the **temperature** and moisture is measured with the at least one **temperature sensor** and the at least one moisture **sensor** in the water-vapor diffusion-impermeable volume, and used for determining the **temperature** and moisture in the structure. According to the present invention, the water-vapor-diffusion equivalent air layer thickness of the water-vapor diffusion-impermeable volume is at least 1000 m, and the **temperature** and moisture of the ambient air are measured.

Classifications:

International (IPC 8-9): G01N25/56 G01N33/38 (Advanced/Invention)

CPC: G01N33/38 G01N25/56 G01N33/383



Family:

Publication number	Publication date	Application number	Application date
AT517525 A1	20170215	AT20150050718	20150813
CA2995388 AA	20180212	CA20162995388	20160811
EP3335040 A1	20180620	EP20160759669	20160811
US2018238852 AA	20180823	US20160752136	20160811
WO17024329 A1	20170216	WO2016AT60028	20160811

Priority:

AT20150050718 20150813 WO2016AT60028 20160811

Probable Assignee: PUCHEGGER U JILG PARKETT GROSS U EINZELHANDELS GMBH

Assignee(s): (std): PUCHEGGER U JILG PARKETT GROSS U EINZELHANDELS GMBH

Assignee(s): JILG HELMUT ; PUCHEGGER ALFRED ; PUCHEGGER U JILG PARKETT GROSS U EINZELHANDELS GES M BH ; PUCHEGGER U JILG PARKETT GROSS U EINZELHANDELS GESMBH

Inventor(s): (std): ALFRED PUCHEGGER ; HELMUT JILG ; JILG HELMUT ; PUCHEGGER ALFRED

Agent(s): MACRAE AND CO; SONN AND PARTNER PATENTANWAELTE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

42) Family number: 49553602 (US2011218690A)

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Title: SYSTEM AND METHOD FOR PROVIDING AUTOMATED ELECTRICAL ENERGY DEMAND MANAGEMENT

Abstract: A system and method for providing energy demand management. The system and method may comprise at least one network element communicatively coupled to at least one equipment, wherein the at least one equipment consumes energy or generates energy. The system and method may also comprise a master control unit communicatively coupled to the at least one network element, wherein the master control unit is configured to monitor and manage energy use at the at least one equipment via the at least one network element. The system and method may also comprise a server communicatively coupled to the master control unit over a network, wherein the server is configured to process a variety of information useful for the master control unit.

Classifications:

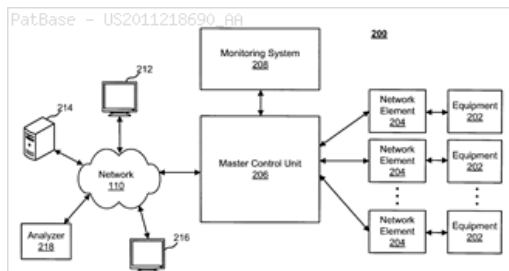
International (IPC 8-9): G05D3/12 G06F1/32

G06F19/00 (Advanced/Invention)

CPC: G06Q10/06 G06Q50/06 Y02P90/82

European: G06Q10/06 G06Q50/06 Y02E40/70

US: 700/295 700/295P 700/295S 700/296 700/296P



Family:

Publication number	Publication date	Application number	Application date
US2011218690 AA	20110908	US20110041212	20110304
US2011218691 AA	20110908	US20110041246	20110304

WO11109757 A1	20110909	WO2011US27270	20110304
WO11109759 A1	20110909	WO2011US27273	20110304

Priority:

US20100310788P 20100305 US20110041212 20110304 US20110041246 20110304

Probable Assignee: EFFICIENT ENERGY AMERICA INC

Assignee(s): (std): EFFICIENT ENERGY AMERICA INC

Inventor(s): (std): BALLANTINE PATRICK JAMES ; O CALLAGHAN CORNELIUS ; ROGERS ALFRED CALVIN ; O NEILL DARA PATRICK ; BOWEN PAUL EUGENE ; CIROCKI ARTUR HENRYK

Inventor(s): O'NEILL DARA PATRICK ; O'CALLAGHAN CORNELIUS

Agent(s): WANG GEORGE Y ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

43) Family number: 65078315 (US2017063141A)

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Title: ELECTRONIC DEVICE AND METHOD FOR CONTROLLING **TEMPERATURE** OF ELECTRONIC DEVICE

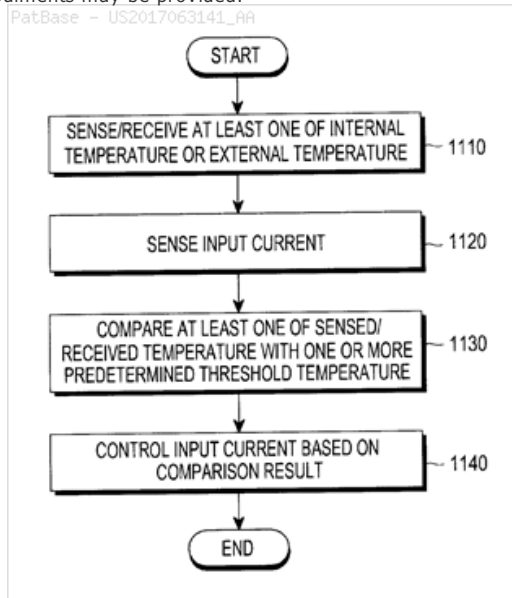
Abstract: According to various embodiments of the present disclosure, an electronic device comprising: a housing; a conductive pattern that is provided in the housing; and a **controller** that is electrically connected with the conductive pattern, configured to apply a current to the conductive pattern, monitor the current, and if the monitored current value exceeds a first threshold value for more than a selected time, changes the current value to a first selected value that is equal to or less than the first threshold value; wherein the conductive pattern is configured to generate induced electric power responsive to application of current by the **controller**. Various embodiments may be provided.

Classifications:

International (IPC 8-9): H02J17/00 H02J50/12 H02J50/60 H02J7/00 H02J7/02 H02J7/04 (Advanced/Invention)

CPC: H02J7/025 H02J50/12 H02J17/00 H02J7/0047 H02J7/045 H02J7/0091 H02J7/0029

US: 320/108



Family:

Publication number	Publication date	Application number	Application date
CN107925274 A	20180417	CN201680045104	20160822
EP3342022 A1	20180704	EP20160839550	20160822
EP3342022 A4	20180704	EP20160839550	20160822
IN201837003393 A	20180309	IN201837003393	20180130
KR20170024406 A	20170307	KR20150119629	20150825
US2017063141 AA	20170302	US20160242777	20160822
WO17034261 A1	20170302	WO2016KR09241	20160822

Priority:

KR20150119629 20150825 WO2016KR09241 20160822

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): LEE WON KI ; KIM JOON IL ; PARK SE HO ; HWANGBO SANG MOO

Agent(s): NEDERLANDSCH OCTROOIBUREAU; LEE KEON JOO ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

44) Family number: 64520744 (US2016377491A)

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Title: ELECTRONIC DEVICE AND METHOD FOR DETERMINING **TEMPERATURE** IN THE ELECTRONIC DEVICE

Abstract: An electronic device detachable from and attachable to a user and a method of determining a **temperature** in the electronic device are provided. The electronic device includes a housing, a battery mounted in the housing, a coupling member connected to a part of the housing and configured to detachably couple the electronic device to a part of the user's body, a conductive member disposed on one surface of the housing or on one surface of the coupling member and exposed externally, in electrical connection to the battery, a **temperature sensor** electrically connected to the conductive member, and a circuit electrically connected to the battery, the conductive member, and the **temperature sensor**, wherein the circuit is configured to monitor a value of a current or a voltage received through the conductive member, and to charge the battery using the current or operate the **temperature sensor**, based on at least a part of the monitored value.

Classifications:

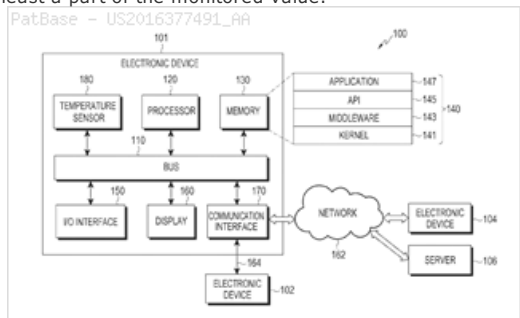
International (IPC 8-9): G01K15/00 G01K7/00 G04G17/00

G04G21/02 (Advanced/Invention)

CPC: G04G21/02 G04G17/00 G04G21/025 G01K1/20 G01K13/002

A61B5/150954 A61B2562/0271 G06F1/163

US: 374/1



Family:

Publication number	Publication date	Application number	Application date
KR20170000261 A	20170102	KR20150089274	20150623
US2016377491 AA	20161229	US20160190918	20160623

Priority:

KR20150089274 20150623

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): BAN YOUNG KYUN

45) Family number: 58180984 (US2015005980A)

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Title: METHOD AND APPARATUS FOR CONTROLLING **TEMPERATURE**

Abstract: A method of controlling a **temperature** of a terminal apparatus includes measuring a first **temperature** of a heat source area where at least one heat source is included in the terminal apparatus, and measuring a second **temperature** of an external area that is distant from the heat source area; determining a difference between the first **temperature** and the second **temperature**; and controlling heat generated from the heat source, based on the difference between the first **temperature** and the second **temperature**.

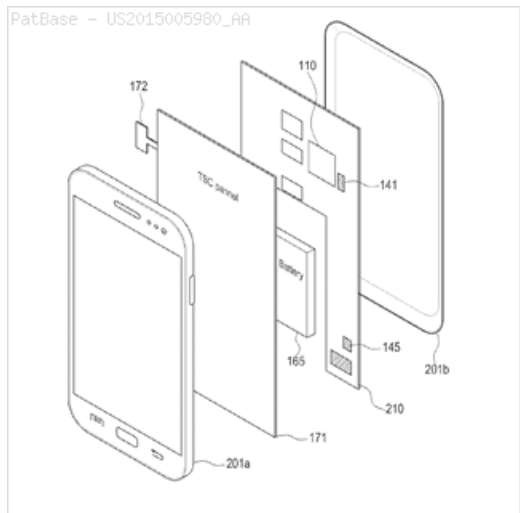
Classifications:

International (IPC 8-9): G05D23/00 G05D23/19

H04B1/40 (Advanced/Invention)

CPC: G05D23/1931 G06F1/203 G06F1/206

US: 165/287 700/300



Family:

Publication number	Publication date	Application number	Application date
KR20150008950 A	20150126	KR20130073776	20130626
US2015005980 AA	20150101	US20140297025	20140605

Priority:

KR20130073776 20130626

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): KIM MIN SOO ; LEE JUNG KEUN ; OH JI WOONG

46) Family number: 63668483 (WO18002589A1)

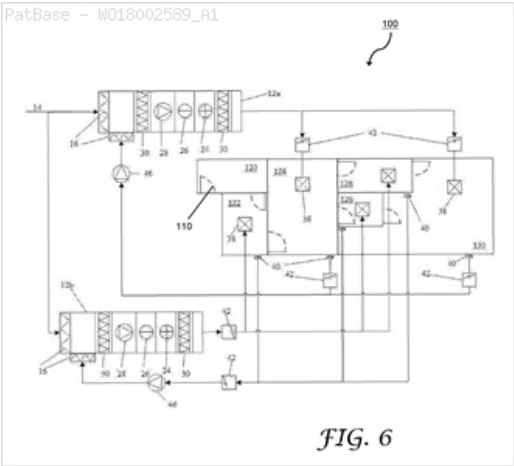
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Abstract: The present invention relates to a control system for controlling air volume to maintain a desired concentration of airborne contamination in a cleanroom supplied by a **HVAC** system being operative to supply treated air to the cleanroom, comprising: sensing means for sensing a concentration of non-viable particles and/or viable particles in real time or near real time; and processing means for comparing the sensed concentration of non-viable particles and/or viable particles against the desired concentration of airborne contamination and outputting at least one control signal to the **HVAC** system based on the comparison.

Classifications:

International (IPC 8-9): F24F11/00 F24F11/64 F24F11/89 F24F3/16 (Advanced/Invention)

CPC: F24F3/161 B01L1/04 F24F11/30 F24F11/46 F24F11/62 F24F2110/50 B01L2200/146 B01L2200/147



Family:

Publication number	Publication date	Application number	Application date
AU2017289701 AA	20190131	AU20170289701	20170623
CN109312941 A	20190205	CN201780039232	20170623
EP3475625 A1	20190501	EP20170734432	20170623
GB201611107 A0	20160810	GB20160011107	20160627
GB2551714 A1	20180103	GB20160011107	20160627
SG11201811173V A1	20190130	SG20181111173	20170623
WO18002589 A1	20180104	WO2017GB51837	20170623

Priority:

GB20160011107 20160627 WO2017GB51837 20170623

Probable Assignee: ENERGY EFFICIENCY GROUP LTD

Assignee(s): (std): ENERGY EFFICIENCY CONSULTANCY GROUP LTD ; ENERGY EFFICIENCY GROUP LTD

Inventor(s): (std): ROBERT WALLACE ; SHUJI CHEN ; WALLACE ROBERT ; CHEN SHUJI

Agent(s): MADDEN PATENT AND TRADE MARK ATTORNEYS; MADDEN PTY LTD; PRICHARD LESLIE STEPHEN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

47) Family number: 63732980 (US2016299009A)

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Title: APPARATUS AND METHOD FOR MEASURING **TEMPERATURE** IN ELECTRONIC DEVICE

Abstract: An apparatus and method for measuring a **temperature** in an electronic device. An amount of light of an optical signal reflected off of an object is measured, and a size of a **temperature** measurement expectation area on the object based is determined based on the measured amount of light. A **temperature** measurement guide message is output based on a result of comparing the determined size and a reference area.

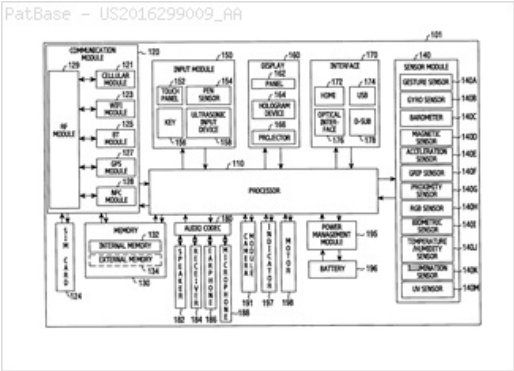
Classifications:

International (IPC 8-9): G01J5/00 G01J5/10

G01K13/00 (Advanced/Invention)

CPC: G01J5/0025 G01J5/025 G01J5/026 G01J5/0265 G01J5/0275 G01J5/0846 G01J5/089 G01J5/0896

US: 374/121

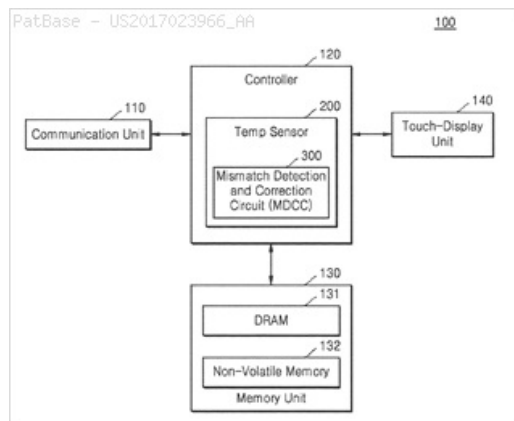


Family:

Publication number	Publication date	Application number	Application date
KR20160121993 A	20161021	KR20150051955	20150413
US2016299009 AA	20161013	US20160092057	20160406

Priority:

KR20150051955 20150413



Family:

Publication number	Publication date	Application number	Application date
CN106370314 A	20170201	CN201610590980	20160725
KR20170011551 A	20170202	KR20150104355	20150723
US2017023966 AA	20170126	US20160166392	20160527

Priority:

KR20150104355 20150723

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): KIM JOO SEONG ; KIM KWANG HO ; KIM SANG HO ; SANG HO KIM ; KWANG HO KIM ; JOO SEONG KIM